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# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

JANUARY 15, 1955

TOP STACK  
(UNBOUND)



Rosa Hugonis

**SEEDS** TREE—SHRUB—PERENNIAL  
FLOWER—GRASS—VEGETABLE

**HERBST BROTHERS**

SEEDSMEN, INC.

678 Broadway, New York 12, N. Y.

Correspondence with seed collectors and growers invited. Free catalog "Seeds for Nurserymen."

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## Superior-Quality — SHRUBS — Northern-Grown

COMBINATION CARS—Orders received for shipment to EASTERN POINTS can usually be included in combination cars in late March.

This is only a partial listing of our wide selection of quality shrubs in grades that are in heavy demand. These are heavy, well-rooted, 2 and 3-year shrubs, well furnished and suitable for critical landscape trade, mail order, salesyards, etc. See our Fall Wholesale Trade List for a more complete listing.

TERMS—Regular. All prices are per 100 plants. If interested in quantity lots, write for special prices.

| ALMOND, pink, own-root             | Per 100 | FORSYTHIA Spring Glory           | Per 100 | RHODOTYPUS kerrioides        | Per 100 |
|------------------------------------|---------|----------------------------------|---------|------------------------------|---------|
| 18 to 24 ins.                      | \$45.00 | 18 to 24 ins.                    | \$40.00 | 12 to 18 ins.                | \$35.00 |
| 2 to 3 ft.                         | 50.00   | 2 to 3 ft.                       | 50.00   | 18 to 24 ins.                | 50.00   |
| AMELANCHIER canadensis             |         | 3 to 4 ft.                       | 60.00   | RHUS canadensis              |         |
| 18 to 24 ins.                      | 45.00   | HONEYSUCKLE, bella albida        | 40.00   | 18 to 24 ins.                | 45.00   |
| 2 to 3 ft.                         | 55.00   | 2 to 3 ft.                       | 40.00   | 2 to 3 ft.                   | 60.00   |
| BARBERRY, thunbergi                |         | 3 to 4 ft.                       | 50.00   | RHUS cotinus (Purple Fringe) |         |
| 12 to 15 ins.                      | 18.00   | HONEYSUCKLE, bella rosea         | 40.00   | 12 to 18 ins.                | 45.00   |
| 15 to 18 ins.                      | 24.00   | 2 to 3 ft.                       | 40.00   | 18 to 24 ins.                | 65.00   |
| 18 to 24 ins.                      | 30.00   | 3 to 4 ft.                       | 50.00   | 2 to 3 ft.                   | 85.00   |
| 2 to 2½ ft.                        | 35.00   | HONEYSUCKLE, Cardinal            |         | RIBES odoratum               |         |
| BARBERRY, thunbergi atropurpurea   |         | 18 to 24 ins.                    | 30.00   | 18 to 24 ins.                | 40.00   |
| 12 to 15 ins.                      | 32.00   | 2 to 3 ft.                       | 40.00   | 2 to 3 ft.                   | 50.00   |
| 15 to 18 ins.                      | 40.00   | 3 to 4 ft.                       | 50.00   | SORBARIA sorbifolia          |         |
| 18 to 24 ins.                      | 45.00   | 4 to 5 ft.                       | 65.00   | 18 to 24 ins.                | 40.00   |
| 2 to 2½ ft.                        | 60.00   | HONEYSUCKLE, grandiflora rosea   |         | 2 to 3 ft.                   | 50.00   |
| BARBERRY, Truehedge Columberry     |         | 18 to 24 ins.                    | 30.00   | SPIRAEA Anthony Waterer      |         |
| 18 to 24 ins.                      | 35.00   | 2 to 3 ft.                       | 40.00   | 12 to 15 ins.                | 35.00   |
| 2 to 2½ ft.                        | 42.00   | 3 to 4 ft.                       | 50.00   | 15 to 18 ins.                | 45.00   |
| BUDDLEIA (Butterfly Bush)          |         | 4 to 5 ft.                       | 65.00   | SPIRAEA arguta               |         |
| No. 1 dormant plants, field-grown  | 27.00   | HONEYSUCKLE, Pink Tatarian       |         | 18 to 24 ins.                | 35.00   |
| Medium dormant plants, field-grown | 22.00   | 18 to 24 ins.                    | 30.00   | 2 to 3 ft.                   | 45.00   |
| Charming                           |         | 2 to 3 ft.                       | 40.00   | SPIRAEA billardi             |         |
| Dubonnet                           |         | 3 to 4 ft.                       | 50.00   | 18 to 24 ins.                | 30.00   |
| BUDDLEIA (Butterfly Bush)          |         | 4 to 5 ft.                       | 65.00   | 2 to 3 ft.                   | 40.00   |
| No. 1                              | 35.00   | HONEYSUCKLE, Red Tatarian        |         | 3 to 4 ft.                   | 60.00   |
| Burgundy                           |         | 18 to 24 ins.                    | 30.00   | SPIRAEA callosa alba         |         |
| Empire Blue (Patent No. 557)       |         | 2 to 3 ft.                       | 40.00   | 12 to 15 ins.                | 40.00   |
| Pink Dawn                          |         | 3 to 4 ft.                       | 50.00   | 15 to 18 ins.                | 50.00   |
| Royal Red (Patent No. 556)         |         | 4 to 5 ft.                       | 65.00   | 18 to 24 ins.                | 60.00   |
| Snowbank                           |         | HONEYSUCKLE, virginialis alba    |         | SPIRAEA foebeli              |         |
| White Bouquet (Patent No. 536)     |         | 2 to 3 ft.                       | 35.00   | 12 to 18 ins.                | 30.00   |
| CARYOPTERIS Blue Mist              |         | 3 to 4 ft.                       | 50.00   | 18 to 24 ins.                | 35.00   |
| Medium                             | 25.00   | HONEYSUCKLE, xabeli              |         | SPIRAEA thunbergi            |         |
| No. 1                              | 30.00   | 18 to 24 ins.                    | 35.00   | 18 to 24 ins.                | 35.00   |
| CHIONANTHUS virginicus             |         | 2 to 3 ft.                       | 40.00   | 2 to 3 ft.                   | 45.00   |
| 18 to 24 ins.                      | 75.00   | 3 to 4 ft.                       | 50.00   | SPIRAEA vanhouttei           |         |
| 2 to 3 ft.                         | 100.00  | 4 to 5 ft.                       | 65.00   | 18 to 24 ins.                | 24.00   |
| CORNUS alba sibirica               |         | HYDRANGEA paniculata grandiflora |         | 2 to 3 ft.                   | 30.00   |
| 18 to 24 ins.                      | 32.00   | 12 to 18 ins.                    | 25.00   | 3 to 4 ft.                   | 45.00   |
| 2 to 3 ft.                         | 45.00   | 18 to 24 ins.                    | 35.00   | SYMPHORICARPOS alba          |         |
| 3 to 4 ft.                         | 60.00   | 2 to 3 ft.                       | 45.00   | 2 to 3 ft.                   | 20.00   |
| CORNUS Goldentwig                  |         | 3 to 4 ft.                       | 55.00   | 2 to 3 ft.                   | 25.00   |
| 18 to 24 ins.                      | 35.00   | 4 to 5 ft.                       | 65.00   | SYMPHORICARPOS chenaultii    |         |
| 2 to 3 ft.                         | 50.00   | LESPEDEZA formosa (Desmodium)    |         | 18 to 24 ins.                | 22.00   |
| CORNUS rosmosa                     |         | 2-yr., medium                    | 30.00   | 2 to 3 ft.                   | 27.00   |
| 18 to 24 ins.                      | 40.00   | 2-yr., No. 1                     | 40.00   | SYMPHORICARPOS vulgaris      |         |
| 2 to 3 ft.                         | 50.00   | LILAC, common purple             |         | 18 to 24 ins.                | 20.00   |
| CORNUS stolonifera                 |         | 2 to 3 ft.                       | 45.00   | 2 to 3 ft.                   | 28.00   |
| 18 to 24 ins.                      | 32.00   | LILAC, common white              |         | TAMARIX                      |         |
| 2 to 3 ft.                         | 45.00   | 18 to 24 ins.                    | 40.00   | 18 to 24 ins.                | 30.00   |
| 3 to 4 ft.                         | 60.00   | 2 to 3 ft.                       | 50.00   | 2 to 3 ft.                   | 40.00   |
| COTONEASTER acutifolia             |         | LILAC, rothomagensis             |         | 3 to 4 ft.                   | 45.00   |
| 18 to 24 ins.                      | 27.00   | 2 to 3 ft.                       | 45.00   | aficana                      |         |
| 2 to 3 ft.                         | 35.00   | 3 to 4 ft.                       | 55.00   | hispidula                    |         |
| 3 to 4 ft.                         | 50.00   | 4 to 5 ft.                       | 75.00   | amurensis                    |         |
| CYDONIA japonica                   |         | LILAC, villosa                   |         | gallica indica               |         |
| 18 to 24 ins.                      | 30.00   | 2 to 3 ft.                       | 35.00   | odessana                     |         |
| 2 to 3 ft.                         | 40.00   | 3 to 4 ft.                       | 45.00   | VIBURNUM americanum          |         |
| 3 to 4 ft.                         | 50.00   | PHILADELPHUS amabilis            |         | 12 to 18 ins.                | 32.00   |
| DEUTZIA gracilis                   |         | 18 to 24 ins.                    | 35.00   | 18 to 24 ins.                | 45.00   |
| 12 to 15 ins.                      | 40.00   | 2 to 3 ft.                       | 45.00   | VIBURNUM dentatum            |         |
| 15 to 18 ins.                      | 50.00   | 3 to 4 ft.                       | 65.00   | 18 to 24 ins.                | 40.00   |
| DEUTZIA lemoinei                   |         | PHILADELPHUS coronarius          |         | 2 to 3 ft.                   | 50.00   |
| 12 to 18 ins.                      | 32.00   | 2 to 3 ft.                       | 55.00   | VIBURNUM lentago             |         |
| 18 to 24 ins.                      | 40.00   | PHILADELPHUS virginialis         |         | 18 to 24 ins.                | 40.00   |
| 2 to 2½ ft.                        | 50.00   | 18 to 24 ins.                    | 35.00   | 2 to 3 ft.                   | 45.00   |
| DEUTZIA Pride of Rochester         |         | 2 to 3 ft.                       | 45.00   | 3 to 4 ft.                   | 65.00   |
| 18 to 24 ins.                      | 32.00   | 3 to 4 ft.                       | 60.00   | VIBURNUM molle               |         |
| 2 to 3 ft.                         | 45.00   | PHYSOCARPUS opulifolius          |         | 2 to 3 ft.                   | 45.00   |
| FORSYTHIA fortunei                 |         | 2 to 3 ft.                       | 40.00   | 3 to 4 ft.                   | 70.00   |
| 18 to 24 ins.                      | 35.00   | PHYSOCARPUS opulifolius luteus   |         | VIBURNUM opulus              |         |
| 2 to 3 ft.                         | 40.00   | (aureus)                         | 50.00   | 18 to 24 ins.                | 40.00   |
| FORSYTHIA intermedia               |         | 2 to 3 ft.                       | 40.00   | 2 to 3 ft.                   | 50.00   |
| 18 to 24 ins.                      | 35.00   | 3 to 4 ft.                       | 50.00   | VIBURNUM opulus sterile      |         |
| 2 to 3 ft.                         | 45.00   | PHYSOCARPUS opulifolius nanus    |         | 18 to 24 ins.                | 45.00   |
| 3 to 4 ft.                         | 55.00   | 2 to 3 ft.                       | 40.00   | 2 to 3 ft.                   | 60.00   |
| FORSYTHIA intermedia spectabilis   |         | 3 to 4 ft.                       | 50.00   | 3 to 4 ft.                   | 80.00   |
| 18 to 24 ins.                      | 35.00   | PRIVET, Regel                    |         | WEIGELA Eva Rathke           |         |
| 2 to 3 ft.                         | 45.00   | 12 to 18 ins.                    | 20.00   | 12 to 18 ins.                | 28.00   |
| 3 to 4 ft.                         | 55.00   | 18 to 24 ins.                    | 30.00   | 18 to 24 ins.                | 40.00   |
|                                    |         | 2 to 2½ ft.                      | 40.00   | 2 to 3 ft.                   | 50.00   |
|                                    |         |                                  |         | WEIGELA rosea                |         |
|                                    |         |                                  |         | 12 to 18 ins.                | 25.00   |
|                                    |         |                                  |         | 18 to 24 ins.                | 35.00   |
|                                    |         |                                  |         | 2 to 3 ft.                   | 45.00   |



ESTABLISHED 1875

One of America's Foremost Nurseries

# Mount Arbor Nurseries

• SHENANDOAH IOWA •



# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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| Economy Label Sales Co.          | 86                         | New Yorker Bag & Burlap Co.      | 89-90       | W-W Grinder Corp.                  | 96            |
| Edco Corp.                       | 83                         | Newport Nursery Co.              | 42          | Wade & Gaffon Nursery              | 48            |
| Egyptian Nursery & Landscape Co. | 46                         | Niaqara Chemical Div.            | 76          | Walker Mfg. & Sales Corp.          | 83            |
| Elmer Roses                      | 64                         | Norris Fence Co.                 | 77          | Want Ads                           | 75            |
| Evergreen Nurseries              | 49                         | Nursery Specialty Products, Inc. | 85          | Waynesboro Nurseries               | 56            |
| Evergreen Nursery Co.            | 50                         | Nutritional Concentrates, Inc.   | 98          | Wayside Gardens                    | 42            |
| Excelsior                        | 90                         |                                  |             | Weeks Wholesale Rose Grower        | 61            |
|                                  |                            | Onarga Nursery Co.               | 52          | Weller Nurseries Co., Inc.         | 50            |
| Fafard, Inc., Conrad             | 97                         | Oregon Bulb Farms                | 64          | Western Maine Forest Nursery Co.   | 34            |
| Fairview Evergreen Nursery       | 30                         | Owen & Son, T. G.                | 52          | Westminster Nurseries              | 36            |
| Farm Landscape Co.               | 42                         | Ozark Nursery Co.                | 56          | Whalley, J. B.                     | 39            |
| Felins Tying Machine Co.         | 74                         |                                  |             | Wheelock & Turnbull, Inc.          | 39            |
| Fern Hawaii Co.                  | 95                         | Pacific Coast Nursery            | 63          | Whitehall Metal Studios, Inc.      | 93            |
| Flickinger's Nursery             | 37                         | Pacific Northwest Rose Nursery   | 84          | Wight Nurseries                    | 56            |
| Flowerwood Nursery               | 57                         | Pallack Bros. Nurseries, Inc.    | 37          | Williams, Isaac Langley            | 16            |
| Food Machinery & Chemical Corp.  | 76-84                      | Paramount Nurseries              | 78          | Williams & Harvey Nurseries        | 79            |
| Ford Motor Co.                   | 99                         | Paw Paw Plant Co.                | 58          | Willis Nursery Co.                 | 20            |
| Forest Nursery Co.               | 53                         |                                  |             | Willowbend Nursery                 | 44            |
| Foster Nurseries, Inc.           | 58                         |                                  |             | Wilmat Holly Co.                   | 96            |
| Fraser Nurseries, Samuel         | 32                         |                                  |             | Wire Basket Co.                    | 91            |
|                                  |                            |                                  |             | Wood Products Co.                  | 80            |
| Garden Shop, Inc.                | 88                         |                                  |             | Woodruff & Sons, F. H.             | 57            |
| Gardner's Nurseries              | 36                         |                                  |             |                                    |               |
| Geiger Co., E. C.                | 92                         |                                  |             | York Modern Corp.                  | 91            |
| Gellco, Inc.                     | 81                         |                                  |             |                                    |               |
| General Package Corp.            | 81                         |                                  |             |                                    |               |
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| Gresham's Nursery                | 53                         |                                  |             |                                    |               |
| Gro-Quick Sales                  | 88                         |                                  |             |                                    |               |
| Growers Exchange, Inc.           | 58                         |                                  |             |                                    |               |

Forms for the February 1 issue will close Friday, January 14.

Forms for the February 15 issue will close Friday, January 28.

Mail copy to arrive at Chicago by these dates — no later!



# IN A ROW

for Robert V. Lindquist  
of HOWARDS of HEMET

## Tiffany

### TIFFANY AND LILIBET WILL BE PRE-SOLD TO MILLIONS!

These two All-America Rose Selection Winners are certain to be big profit makers for you... here's why! Garden editors of newspapers have to date written better than 38 full pages of editorial about Tiffany and Lilibet roses! In addition, leading home and garden magazines have and will continue to carry full color illustrations and stories about these two winners. This kind of publicity, plus our own full color ads in practically all leading garden magazines is creating a tremendous demand. Stock and watch profits go UP!

Because of the usual shortage of current AARS winners, we suggest you order now while Tiffany and Lilibet plants are still available in No. 1 grade. In other varieties we still have an excellent assortment of No. 1½ grade. No. 1 grades are limited at this time. Eastern shipments PRE-PAID. Write for details.

### 1955 ALL-AMERICA ROSE SELECTIONS AWARD WINNER



Here is the hybrid tea that is sure to become the most popular rose of the decade. Tiffany's AARS score nearly topped the highest score on record. Tiffany combines all of the most desirable characteristics demanded of a great rose. Tiffany's deep pink and golden yellow blooms are huge and it is not unusual to see stems 20" to 24" long. Named to honor Tiffany & Co., known the world over for unexcelled quality.

## Lilibet

### 1954

ALL-AMERICA  
ROSE  
SELECTIONS  
AWARD WINNER



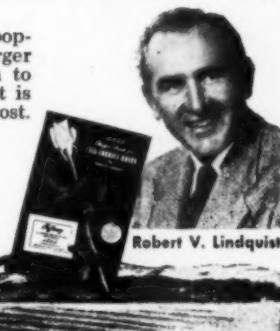
This lovely floribunda has already taken its place as a popular favorite. Lilibet's vigorous growth and beautiful coral pink blooms assure its continuous demand for many years to come. Lilibet has become a national favorite used in mass planting and hedges because it remains green and attractive long into the Fall.

TIFFANY and LILIBET are HOWARDS of HEMET ORIGINATIONS

### 1955 BUYERS GUIDE FOR ALL-AMERICA ROSES

By Robert V. Lindquist

Last year our AARS booklet was so popular we are making a new and larger booklet available to all nurserymen to give to their customers. This booklet is available to all at actual printing cost. Write for details.



Robert V. Lindquist



## HOWARDS OF HEMET • HEMET, CALIFORNIA



# AMERICAN NURSERYMAN

F. R. KILNER  
Editor and Publisher

KENNETH A. BRENT  
Managing Editor

## Editorial

### WHAT TO CALL THEM?

If the federal trade commission, in the proposed draft of fair trade practice rules for this industry, insists that the word "nursery" may be used only by a firm that grows a substantial amount of the stock it sells, what is the term that is to be applied to the retail enterprises in interstate commerce which sell nursery stock of which they grow little or none?

Their problem will not be mitigated or assuaged by a statement that 95 per cent of the retail outlets that now go under the title of nursery are in intrastate commerce and therefore will not be subject to a set of rules established by an agency of the federal government.

Many of that 95 per cent may face the problem later, when their business expands sufficiently to cross state lines. And what about the retail nurseryman doing a local business in a community at, or close to, a state boundary?

Because a nurseryman sells only within a state, is he only in intrastate commerce? Many such retailers buy much stock and supplies from outside their state, and we seem to have heard of court decisions that held such was a basis for classification in interstate commerce, at least for the application of some federal laws, such as that on wages and hours. May not the FTC similarly extend its jurisdiction?

Many, many readers of this magazine use the word "nursery" in their firm names without producing many of the trees and shrubs they sell as a means of livelihood. The public has never accused any of these, so far as known, of unfair practice or misrepresentation. They have felt as much entitled to be called a nurseryman as a florist, seedsman or grocer is justified in his name though he does not produce the merchandise he sells.

What are these many, many readers to be renamed if the nursery industry cannot convince the federal trade commission that a ruling made 17 years ago is out of date, to say the least?

## The Mirror of the Trade

Will an industry have to undergo a wholesale rechristening of many of its members in order to gain fair practice rules designed to inhibit a few sharpers who are so elusive anyway that they set up in business again when convicted and sentenced in court?

### NEW MULCH

Nowadays home gardeners seek to avoid hoeing by the application of mulches to their rose beds. The materials used are those that can be secured locally at reasonable prices—buckwheat hulls, ground corn cobs, peanut hulls, spent tanbark, old sawdust, peat moss, etc.

The number of rose gardeners turning to these mulch materials has so depleted local supplies that new products are tried annually. The latest heard about is shredded tree trimmings. A season's trial was reported successful by an Illinois rosarian, who said the material reacted much like corn cobs or sawdust. Efficient and durable, it was conceded to be less attractive, but quite low in cost.

If the mulch-minded rosarians continue to provide a strong market, arborists may wish to invest in the brush-choppers which have come on the market in recent years and, like the meat packers, make a profit from their by-products.

### RESEARCH REPORTS

Aside from the projects undertaken by nurserymen's organizations or state institutions directly on nursery problems, numerous research findings of help and value to those engaged in the commercial field are reported in scientific periodicals, bulletins and other publications not likely to reach the attention of many readers of this magazine. The importance of such research—on seed germination and treatment, control of tree diseases and insect pests, hardiness and such topics—has led to discussion of their more adequate coverage in one form or another.

Hitherto some reports of such research have appeared in this magazine from time to time, and the interest in them has caused editorial effort to be made for more regular and fuller coverage. In this issue, therefore, begins a feature column, "Abstracts of Current Research," which will briefly present digests of research that may be turned to ac-

count by some nurserymen. In this way, the practical aspects of such research will be communicated to readers, who may turn to the original sources cited if more data is desired.

### TAX CALENDAR

The beginning of the new year brings to attention a number of phases in taxation and allied matters which are the result of legislative action taken by the past Congress. Each nurseryman should check these matters to see what needs action on his part.

On the first day of the new year are effective several amendments to the social security law. By the extension of coverage to self-employed persons, individual nurserymen, not operating on a corporate basis, will be included. As coverage is extended among farm employees, more nurserymen employees will be added. Everyone will be affected by the increase in the salary base on which the tax is levied, from \$3,600 to \$4,200.

Also with the arrival of the new year becomes effective a change in the unemployment compensation act, so that coverage is extended to employers of four or more covered workers, whereas the old law applied only to those having eight or more covered employees. In this regard, it may be noted that some state laws specified fewer employees than the federal law, and in those cases the state law governs.

The income tax law is not so immediately important, as the date for personal schedules to be filed has been changed from March 15 to April 15. However, the number and variety of changes, with the possibilities for savings by taxpayers, make it desirable that they give their returns early attention unless the services of a tax attorney or an accountant are employed.

The number of general changes in the law is so great and their effects so detailed, rather than general in effect, that it is not possible to list them here. A local bank, tax attorney or accountants' firm can supply digests of the revised tax code for those wishing to study the changes. Immediately affecting nurserymen is the liberalization of depreciation write-offs and more generous allowances for soil conservation expenses.



# Shipping Roses in Polyethylene Wraps

## Plastic Provides For Attractive And Protective Retail Display

By John P. Mahlstede

Iowa State College

Since roses are probably the most important single item merchandised by nearly all nurserymen, either at the wholesale or retail level, special attention to methods of handling should be made. The fact that this type of plant requires careful management in the field and in storage, as well as in packaging, makes the problem even more important, not only to the nurseryman, but also to the rosarian.

After the rose has reached salable size the first problem encountered is that of proper defoliation. In the northern United States fall freezes of sufficient intensity and duration often do not come until late in the season. When this occurs, nurserymen who allow plants to stand unprotected in the field in hope of a good freeze also stand a chance of losing the plants, either because the ground freezes and stays frozen or because the plants grow late and winter injury results in cane or crown damage. The nurseryman usually undercuts stock well in advance of the final lifting date. By so doing he root-prunes, which in many cases stimulates lateral branching near the cut surface and which ultimately results in premature defoliation.

The use of chemical defoliant in the field before digging is of questionable merit. In experiments at Iowa State College it has been observed that chemicals such as Nacconol Hg and NR and Niagarathal DF in some years and under certain conditions do an excellent job of defoliating roses in the field. The age and maturity of the plant are important factors determining the



In figure 1, above, a well-grown mature rose pruned to 12 inches is root wrapped in moist packing, preparatory to waxing or bagging in a 1 1/2-mil. polyethylene bag.

Figure 2, at right, shows the application of an over-all polyethylene bag to a root-wrapped, nonwaxed rose to be sold across the counter at a retail store.

Figure 3, below, shows the packaging of a dormant, bare-root plant for long-term holding at relatively low temperature or short-term display at room temperatures.



effectiveness of these compounds. It has also been noted that the younger the plant, the more difficult it is to defoliate. Use of chemical defoliant poses another problem, which can be serious to the nurseryman handling this type of stock. If he sprays a block of plants with a defoliant

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The final group of officers of the Western Pennsylvania Nurserymen's Association, which has now merged with the Pennsylvania Nurserymen's Association. Left to right, Homer A. Thornton, vice-president; Sam Dible, president; Frank Curto, secretary, and Frank H. Brushmiller, treasurer.

## Western Pennsylvanians Merge With State-Wide Association

*By Frank Curto*

The 111th and final meeting of the Western Pennsylvania Nurserymen's Association took place December 9, 1954, at the Webster Hall hotel, Pittsburgh. The designation of the meeting as the final one is accounted for by the completion of the merger of the Western Pennsylvania Nurserymen's Association with the Pennsylvania Nurserymen's Association, a project which has been pending for some time.

While the organization will no longer exist as an independent unit, its membership will comprise the newly designated western region of the Pennsylvania group and will continue to meet in the same way as for the past 27 years. There will be little or no change in either the time of the meetings or the type of programs presented.

The merger with the state organization will serve to present a solid front of nurserymen across the entire state of Pennsylvania. For 14 years attempts have been made to merge the two associations. During the past two years a concerted effort was made by members of both associations to finally consummate the merger.

### Deterrent Overcome

A deterrent to the merger in the past has been a fear on the part of the members of the Western Pennsylvania Nurserymen's Association that if they merged with a larger group there would be a loss in the intimacy which had characterized

the Western Pennsylvania meetings over the years. By dividing the Pennsylvania Nurserymen's Association into eastern and western divisions, the western members retain their close contacts and preserve their meeting schedules as heretofore.

The formal announcement of the merger was made to members of the Western Pennsylvania Nurserymen's Association at this meeting by Louis Wissenbach, Squirrel Hill Nursery, Pittsburgh, reporting for the W. P. N. A. merger committee. The association approved a motion made by Mr. Wissenbach that the executive committee of the Western Pennsylvania association be empowered to certify the list of members of the association in good standing to the Pennsylvania Nurserymen's Association.

Mr. Wissenbach stated that the tentative boundary for the western region of the Pennsylvania Nurserymen's Association would be a line starting at Bradford, Pa., and running due south, through Cresson, to the southern border of the state. He also informed the association that the executive committee of the Pennsylvania Nurserymen's Association had incorporated into the bylaws a stipulation that one third of all dues collected from members in each region would be returned to that region for its use in conducting local programs.

It was announced that the annual meeting of the Pennsylvania Nurserymen's Association will be held at

York, February 9 and 10. In connection with this, it was decided by the western Pennsylvanians that their delegate to the convention be instructed to nominate Jesse Flory, LaBar's Rhododendron Nursery, Stroudsburg, as president, and Arthur B. Copenhaver, Copenhaver Nurseries, Mechanicsburg, as first vice-president. Mr. Flory and Mr. Copenhaver are now first vice-president and second vice-president, respectively, of the Pennsylvania association. The delegate was further instructed to nominate Homer Thornton, Thornton Nurseries, Conneaut Lake, as second vice-president. Mr. Thornton has been active in the Western Pennsylvania association.

Mr. Wissenbach informed the members that it would be necessary for the western region to have a small nucleus of officers to operate the business of the region. As a consequence of this, Mr. Thornton, who was completing a term as vice-president of the W. P. N. A., was named to act as chairman for the western region, with Frank H. Brushmiller, Pittsburgh, as treasurer, and Frank Curto, Phipps Conservatory, Pittsburgh, secretary.

A committee which had been designated to canvass the membership for three representatives to serve on the executive board of the Pennsylvania Nurserymen's Association from the western region submitted the names of Louis Wissenbach, John M. Eisler, Eisler Nurseries, Butler, and Herbert S. Hoechstetter, Hoechstetter's Nursery, Verona. The three were then elected to the board.

As a final action in connection with the merger with the Pennsylvania Nurserymen's Association, the western members voted to contribute \$500 to the state group to aid in paying attorneys' fees incurred in fighting the Musser labor relations case.

The advertising committee of the association offered a brief report on mail-order sales. It was pointed out in the report that often purchases made through mail-order firms have proved disappointing to the purchaser. Local concerns were advised to advertise their wares in local media, make their products known and thus capture much of the business that is presently going to the mail-order concerns.

### Several Films Shown

Several films were shown to the members at this meeting. The first of these concerned Merion bluegrass. This film covered the history of the grass, including its discovery, early experiments with it, its dis-

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# Hold Course For Arizona Nurserymen

*By Leland Burkhart*

The Garden room on the beautifully landscaped grounds of the San Marcos hotel, Chandler, Ariz., in the Phoenix area, provided an excellent setting for the fourth annual Arizona nurserymen's short course. The sessions were held December 9 and 10 and were sponsored by the University of Arizona in cooperation with the Arizona Association of Nurserymen. The theme throughout the sessions was "Better Southwestern Living Through Improved Landscape Horticulture."

In the welcoming address, Dr. Phil S. Eckert, dean of the college of agriculture, University of Arizona, said that the nurserymen's business should be favorable during the next few years because of increased population in the southwest and the prospects of continued good economic conditions. Also it was pointed out that the water situation is important and Arizona should



Participants in the Arizona nurserymen's short course chat on the grounds of the San Marcos hotel, Chandler, Ariz. They are, left to right, Francis Wilson, Arizona Nurseries, Phoenix; J. B. Baker, Jr., president, American Association of Nurserymen, Baker Bros. Nursery, Fort Worth, Tex.; John Harper, Harper Nursery & Floral, Phoenix; Ralph Jacquemin, Sweet Tree Nurseries, Phoenix, and Joseph Folkner, landscape horticulturist, University of Arizona.

be a world center for water utilization research. In relation to the training of landscape nurserymen, the college of agriculture has developed a teaching program including courses in landscape architecture, landscape design, plant propagation and nursery and turf management. The research program includes projects on introduction of new plants, turfgrass management, deciduous fruit variety tests and citrus nursery experimentation.

J. B. Baker, Jr., Fort Worth, Tex., president of the American Association of Nurserymen, addressed the nurserymen on the nursery business in general. It was stressed that no two nurserymen operate their business in a like manner. In fact, Mr. Baker added, there is no book available that tells how to operate a nursery business successfully. If a nurseryman stays in business for 10 years, he will nearly always continue, the speaker observed.

The cooperative effort of nurserymen over the nation is exemplified in their participation in the activities of the American Association of Nurserymen, Mr. Baker continued, and he reviewed some of the historical background of the association.

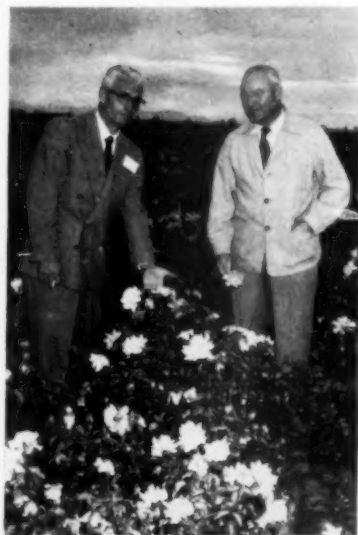
In respect to Dr. Eckert's remarks about Arizona's limited water supplies, Mr. Baker remarked that Texas has also been seriously confronted with water problems, solutions to which are continually being sought. In closing, he pointed out that the nursery business contributes materially to the beauty of com-

munities and urged nurserymen to participate in the work of park boards and other community projects.

Foliage plants in Arizona were discussed by Joseph S. Folkner, of the department of horticulture, University of Arizona. The importance of light as a factor in the quality of plants under southwestern conditions was emphasized, with particular reference to outdoor plants. The microclimatic relationships in connection with adaptability in foliage plants in home environments were also discussed. The more sensitive plants can successfully be placed in recessed entries to homes facing north. Nurserymen, the speaker concluded, should use more plants in planter boxes, both outdoor and indoor.

Citrus irrigation guidance was given by Dr. R. H. Hilgeman, who is in charge of the University of Arizona citrus experiment station located in the Salt River valley. Principles of irrigation were emphasized from the standpoint of moisture-holding capacity of soils and required irrigation intervals. Illustrations were presented regarding the root distribution of citrus trees, fruit growth in relation to water stress and the evaporational rates of the atmosphere in relation to irrigation intervals; these intervals must be shorter in summer than in winter.

John Harlow, Harlow Nursery & Landscape, Tucson, spoke on the value of television in relation to nursery sales and landscape service. After two years' experience, Mr.



Clarence Perkins, right, Jackson & Perkins Co., Pleasanton, Calif., shows John Harper, Phoenix, Ariz., nurseryman, some Orange Delight rose plants growing on the new Jackson & Perkins ranch north of Phoenix.



Harlow was able to point out the advantages of utilizing the services of an advertising agency in planning television programs. Foliage plants do not show well on television, but color television should be ideal for this purpose, he observed.

The principles underlying the use of fertilizers for landscaping maintenance were presented by Dr. W. D. Pew, horticulture department, University of Arizona. Nitrogen requirements of plants in Arizona were stressed, with particular reference to forms of nitrogen in fertilizers. Phosphate relationships were explained.

Soil testing in relation to fertilizer requirements of horticultural plants in Arizona was not recommended by the speaker. This recommendation was based on the poor correlation of soil tests made in relation to actual fertilizer responses in field plot tests over a period of years. Dr. Pew also emphasized that nurserymen should "know what's in the fertilizer bag" before buying, selling or applying the materials.

Factors affecting plant propagation in nursery practices were pointed out by Steve Fazio, University of Arizona. The importance of the following factors was stressed: Condition of the stock plants for cuttings, degree of shading, root growth regulators and rooting media. Excessive shading of evergreen cuttings can be harmful. Certain advantages of using solutions of naphthaleneacetic acid were demonstrated.

#### Discuss Grasses

Turf plot tests with particular reference to varieties were illustrated in color by Lew Whitworth, assistant Maricopa county agent. Art Snyder, president of the Arizona Association of Golf Course Superintendents, emphasized the importance of management in relation to home lawns. Grass grows on a variety of soils, but it was stressed that uniformity of soil in a given area is important from the standpoint of management. Until recently Bermuda grass was the only choice for Arizona conditions and people allergic to it were tempted to try out St. Augustine grass. However, this grass proved to be dormant and unattractive for too long a period during fall, winter and spring. Recently developed strains of Bermuda grass show considerable promise for Arizona conditions. These new strains have a shorter winter dormancy period than standard Bermuda. Zoysia, in combination with better strains of Bermuda appears promising in es-

[Continued on page 74]

## *Ligustrum Quihoui*: A Plant Worth Using

Many plants fall into disuse because they possess some undesirable characteristic or are displaced by superior varieties. Other plants remain in obscurity for no apparent reason. Such is the case of P.I. 38,807, *Ligustrum quihoui*. In spite of having been widely distributed by the plant introduction section of the United States Department of Agriculture, at Beltsville, Md., in 1917 and 1927, this species has never received the attention it deserves.

The shrub is described as follows in the notes of F. N. Meyer, agricultural explorer for the Department of Agriculture, as found in inventory No. 40, 1917, of the office of foreign seed and plant introduction, bureau of plant industry:

"(No. 2078a. Mountains near Mantochu, Shensi, China, January 21, 1914.) A privet found in rocky banks and in between pebbles and rocks, growing into a small or medium-sized bush. Bears masses of small black berries, that set off well the small evergreen foliage. Is much utilized by the Chinese upon which to graft *Olea fragrans* (*Osmanthus fragrans*). Of value as a hedge and

border shrub, especially for the mild-wintered, semiarid parts of the United States. Chinese name Tunk ch'ing chih, meaning 'wintergreen'."

Plants grown from seeds sent in by Dr. Meyer at that time form the present hedge shown in the illustration, from a photograph taken at the United States plant introduction garden, Glenn Dale, Md. At this garden it is semievergreen. Reports from experimenters in various parts of the country indicate that *L. quihoui* has a wide range of adaptability and flourishes in arid conditions where other species of *ligustrum* fail.

Little can be added to the praise of this dense, slow-growing hedge except that our observations concur with Meyer's original notes. U. S. Department of Agriculture farmers' bulletin 2025 lists it as being well adapted to the southern Great plains. It can further be recommended as a specimen plant because of its large panicles of white flowers that are the latest of the genus to appear.

H. N. Fisher, Horticulturist,  
U.S.D.A., Beltsville, Md.



*Ligustrum Quihoui*. Upper View Shows Foliage Detail, Lower Shows Plant as Hedge.



# Tips for Better Landscapes

By Clarence E. Lewis

Long Island Agricultural and Technical  
Institute, Farmingdale, N. Y.

## PLANTINGS FOR SLOPES

Most people think of a garden as merely a place to plant flowers and a bank as an inconvenient area that must be reckoned with to keep the soil from eroding. If that is as far as the thinking goes, the type of development resulting will be just about as interesting. Banks, if well planted, can become integral parts of the garden plan or design, and they do not have to be considered as burdens or problems.

The primary purpose of this article is not to discuss how to plant a bank in order to keep it from eroding but to establish better ways of planting slopes so that they are a more interesting part of the home landscape.

Retaining walls are often necessary at the base of a bank, and they can be not only purposeful but gratifying to those who must look at them daily. Black locust logs are effective when used as shown in illustration A. The rugged appearance of a wall of



A. An Interesting Bank of Kirschner Ivy and Black Locust Logs.

locust logs, with their bark retained, becomes doubly pleasing when it is partly covered by a vine, such as English ivy or a variety thereof. Each tier of logs need not end at the exact same point, as is shown in the foreground of illustration A. The more that one refrains from following the strictly conventional type of treatment, the more pleased are those kind people known as clients. Many people in the case illustrated would have had each log end at the same point. A wall is a wall to these people, whether it is of logs, stones or bricks.

The logs shown in illustration B are merely temporarily placed and remain only until the plants become established. The owner of this property was at first influenced by his

neighbor across the street, whose lawn had a long slope from the road to the house. Again, the long sloping lawn is the conventional way of handling the job. The owner of the house illustrated prefers to keep his existing bank at the roadside, because it gives his house an appearance of greater depth on the property. A psychological feeling of more privacy also prevails by preserving the bank.

Banks can be collections of plants, sometimes to the point of forming a maintenance problem. Each plant in such a collection presents a mowing difficulty because the owner has a few prize plants that must be treated with respect. Such planted slopes rarely appear as though they have been receiving careful attention. Banks are best handled with an overall treatment of ground covers, ground covers and shrubs or sod. There is nothing wrong with having a mowed sod bank next to a planted grade, as may be seen in illustration B, but it is difficult to incorporate the two and sometimes not feasible.

Banks are usually planted with one type of cover, as may be observed in illustration C, where pachysandra does the job as the lone wolf. It looks well, but, where long slopes are involved, it is often better to incorporate groups of shrubs with the low cover planting so that the area does not become too monotonous. Small trees may also be artistically incorporated. The one lone flowering dogwood in illustration C shows that such is desirable.

### Use Plants in Closed Groups

When shrubs are selected, they should not be strong upright growers



B. Planted Banks Give a Feeling of Depth to the House.



C. Ground Covers are the Basis of Most Good Slope Plantings.

because this habit conflicts with the topography which is being planted. Neither should they be spotted here and there so that the planting looks like a hodgepodge. It is good to use plants in closed groups, with only an occasional plant placed as a single specimen. The larger the area, of course, the greater can be the number of plants in each group, and the greater the bank area, the taller the plants can be. It is often desirable and effective to use such plants as drooping leucothoe, Oregon holly grape and glossy abelia. These plants can be pruned regularly so that they are kept low. Periwinkle, vinca, is a good low cover to use with these plants when they are controlled.

Cotoneasters also combine well with periwinkle. In addition to the well-known rock cotoneaster, *Cotoneaster horizontalis*, there are others that are equally well suited for such plantings, namely, *Pyreneas cotoneaster*, *C. congesta*, which is a deep green-foliaged flat grower; creeping cotoneaster, *C. adpressa*; early cotoneaster, *C. adpressa praecox*; the evergreen bearberry cotoneaster, *C. dammeri*, which is not so hardy as the others, and the larger-growing cranberry cotoneaster, *C. apiculata*, which may be just the plant to use where one needs additional mounded height in the bank planting. Even the evergreen willow-leaved cotoneaster and its varieties may be used where more height is desired, but it is well to keep such a plant low by regular pruning.

I recall a bank planting combination of rock cotoneaster and creeping juniper which looked good for many years. The plants were com-

patible—at least their root systems were—for many years.

Banks may be planned as green slopes, effective principally for their flowering effect, or a combination of flowers and foliage. A fourth

type of planting could well be done by using mostly perennials, such as epimedium, mountain pink, Geneva bugle, sun rose, candytuft and many others. The last suggestion is usually not so desirable for most places, since these plants involve more yearly maintenance, and it is not so neat and attractive unless well cared for.

#### Plants for Shady Areas

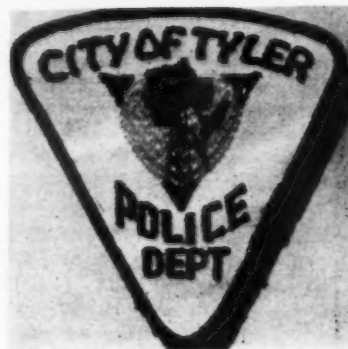
Where deep shade becomes the problem, there are many plants that do a good job. Of the deciduous plants, yellowroot, *Xanthorhiza simplicissima*, is effective and combines with the evergreen *pachysandra*. The 5-leaved *akebia* also does well, but it is difficult to combine with other low-growing plants because of its competitive growth. There are many evergreen types that do not object to living in the shade, and they include *pachysandra* and *myrtle* as two of the best known ground covers. English ivy and its many varieties certainly are the answers to many bank problems. Illustration A shows a planting of a form of English ivy known as Kirschner ivy, which covered the bank shown in less than

[Continued on page 83]

## Tyler Police Adopt Rose Insignia



The police department of Tyler, Tex., has designed and is now wearing insignia featuring a large rose bloom. The insignia were donated to the city by the Texas Association of Nurserymen, of which Clark Kidd, Arp Nursery Co., Tyler, is president. In the photograph above, left to right, are Mr. Kidd; L. A. Dean, Arp Nursery Co., former president, Texas Rose Festival Association; policeman Glenn Carter, and Chief Duncan Butler. At right is a close-up of the insignia.



# Outdoor Propagation Under Constant Mist in Missouri

By Ralph Shugert

Based upon actual propagation procedure during the summers of 1953 and 1954, we are now in a good position to evaluate the merits of outdoor propagation under constant mist. Experience in 1953 suggested a number of modifications and outright changes that were put in effect in 1954.

Our outdoor mist installation differs from many others which we have seen this past summer. Most of the installations in the Shenandoah, Ia., area are in greenhouses or outdoor coldframes. Our installation and the initial setup are explained to show the changes made this year.

Inspired by articles and correspondence with James Wells, we at Forrest Keeling Nursery installed in June, 1953, an outdoor mist house for summer propagation. We took one half of an existing 48x52-foot shade house, removed the top shade completely and set up lines according to the instructions of Mr. Wells in his "Humidification Sales and Service" bulletin. The copper lines were set up with the jets at 2-foot intervals on the lines, alternating from side to side with the jets at a 45-degree downward angle. The variation that we used from Mr. Wells' installation was the use of tomato lugs to hold the cuttings and media rather than benches. We installed three tile lines, using 6-inch tile, and then brought in 12 inches of coarse gravel to assure drainage. The lugs, after they were filled with cuttings, were then set on top of the gravel and the mist lines were then turned on. The lines were turned on at about 8:30 a. m.—or the time dew disappeared—and left on until sundown.

## Number of Plants Used

A number of plants were used in this initial project: Cornus, thuja, pieris, viburnum, ilex, mahonia, magnolia, heder, euonymus, juniperus and taxus. Usual hormone treatments were applied. The initial cuttings were taken on June 21, and on August 13 the house was full, with approximately 47,000 cuttings.

Varieties of thuja, viburnum and ilex responded satisfactorily with an average rooting of 80 per cent. Included in this group were three varieties of American arborvitae, two kinds of Japanese holly and Vibur-

num chenaulti. A few test cuttings of two varieties of magnolia rooted equally well. A few cuttings of English holly were stuck late in the season and were giving every indication of satisfactory response when the advent of cool autumn weather brought a halt to rooting activity.

Cornus florida did not respond satisfactorily in this first test, and results were disappointing with pieris and mahonia. At least part of the difficulty here can be attributed to problems described hereunder.

A half-dozen varieties each of juniperus and taxus were included in this first trial. Unfortunately these were taken late and the propagators "ran out of summer." Most of these varieties had progressed enough before rooting to permit potting, and the flats were carried over in coldframes where rooting continued into the spring. It appears from this that outdoor mist poses a special problem with subjects which are not inherently rapid rooters. If one delays taking cutting wood until it is of accepted hardness for this type of cutting, there are not enough

warm days left in the summer period to complete rooting. It is to be noted that Mr. Wells overcame this problem, at least in part, by taking cuttings from the subjects early, when they were still soft. Constant mist, of course, maintains the turgidity of soft foliage and wood better than the atmosphere in conventional propagating structures.

## Three Problems

Three distinct problems arose in our first experience with outdoor mist. One was the problem of encountering cooler weather with slow-rooting subjects.

A second problem was drainage. In constructing the floor of the mist area, ample drainage was provided with drain tile and coarse rock. However, an error was made in lining the flats with three or four layers of newspaper to prevent the sand medium from sifting through. Although drainage of the flats at the outset seemed perfect, it was later found that the sand in some was nearly saturated, which caused rotting of the cutting base, particularly with taxus. Unusual care in providing perfect drainage appears important with constant mist. Interestingly enough, little rotting and superior rooting occurred in check flats containing vermiculite instead of river sand.

A third problem was the build-up

PLANTS PROPAGATED IN SUMMER, 1954, WITH RESULTS OBTAINED

| Variety                     | Date Taken | Am't Taken | Am't Banded | Date Banded | % Rooted  | % R.C. (1) |
|-----------------------------|------------|------------|-------------|-------------|-----------|------------|
| Ilex Carr Hardy             | 6/1        | 132        | 123         | 7/22        | 93%       | 93%        |
| Berberis julianae           | 6/9        | 115        | 97          | 7/23        | 84%       | 55%        |
| Berberis mentenensis        | 6/4        | 3,527      | 3,186       | 7/10        | 90%       | 80%        |
| Cotoneaster r. songor.      | 6/5        | 202        | 127         | 7/26        | 65%       | 37%        |
| Euonymus alatus compactus   | 5/27       | 6,773      | 6,573       | 7/13-19     | 97%       | 85%        |
| Euonymus carrierei          | 6/2        | 859        | 859         | 7/9         | 100%      | 100%       |
| Euonymus fort. coloratus    | 6/25       | 1,505      | 1,505       | 7/9         | 100%      | 90%        |
| Euonymus fort. Wied         | 6/3        | 89         | 29          | 7/12        | 100%      | 100%       |
| Euonymus fort. Vegetus      | 6/2        | 612        | 637         | 7/9         | 99% (160) | 25%        |
| Forayta lymwoodi            | 6/4        | 436        | 380         | 7/26        | 80%       | 80%        |
| Hedera helix latifolia      | 5/27       | 27,210     | 22,505      | 7/20        | 46%       | 40%        |
| Hedera helix turgida        | 6/14-17    | 2,509      | 1,675       | 7/27        | 67%       | 57%        |
| Ilex opaca                  | 6/9        | 894        | 717         | 7/26        | 80%       | 30%        |
| Ilex crenata setali         | 6/10       | 1,541      | 408         | 7/22        | 36%       | 32%        |
| Juniperus s. douglasii      | 6/12       | 3,223      | 594         | 8/24        | 18%       | 18%        |
| Kolkwitzia amabilis         | 6/25       | 650        | 349         | 8/24        | 54%       | 50%        |
| Magnolia grandiflora        | 6/2        | 194        | 80          | 7/23        | 41% (38)  | 20%        |
| Magnolia soulangiana        | 6/25       | 616        | 416         | 8-24        | 68% (267) | 43%        |
| Metasequoia glyptost.       | 7/9        | 464        | 204         | 8/25        | 44%       | 40%        |
| Prunus lauro. zatai.        | 6/2        | 54         | 46          | 7/27        | 85%       | 71%        |
| Pyracantha coccinea         | 6/3        | 1,095      | 1,012       | 7/12        | 92%       | 71%        |
| Rosa chinensis atropurpurea | 6/8        | 159        | 63          | 7/26        | 40%       | 4%         |
| Salix purpurea nana         | 5/26       | 5,518      | 5,518       | 7/8         | 100%      | 0%         |
| Salix purpurea nana         | 7/27       | 6,425      | 6,388       | 8/23        | 96%       | 86%        |
| Philadelphus snowflake      | 6/1        | 921        | 758         | 7/21        | 82%       | 70%        |
| Syringa chinensis           | 6/7        | 1,303      | 1,972       | 8/23        | 85%       | 61%        |
| Syringa chinensis alba      | 6/10       | 215        | 724         | 7/27        | 77%       | 59%        |
| Viburnum burwoodi           | 5/26       | 1,668      | 1,275       | 7/22        | 77%       | 71%        |
| Viburnum chenaulti          | 6/2        | 843        | 658         | 7/20        | 79%       | 72%        |

(1) This figure taken at the close of the summer season when all cuttings were firmly established and growing in the plant land. John Innes compost no. 12 was used as a potting medium on all varieties.

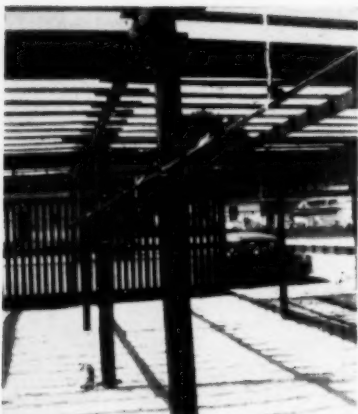
\* Many improper cuttings were made.

\*\* Approximately 250 cuttings died in mist house due to improper water distribution.

\*\*\* Cuttings possibly taken too late.

\*\*\*\* Cuttings exposed to 117-degree temperature the second day after banding.





Outdoor propagating area at Forrest Keeling Nursery, Elsberry, Mo. A misting line may be seen attached to the upright supports.

of "hardness" precipitate on cutting foliage and the surface of the medium under constant mist. Our arrangement of nozzles and pressure delivered approximately four inches of water per week to the area. Those cuttings that did not root promptly acquired a whitish cast as the weeks passed and the precipitate built up. The sand medium, too, became crusted. While no pH check was maintained, it is believed the medium became constantly more alkaline. From this, then, a source of soft or properly treated water seems to be extremely important in an outdoor constant mist setup.

Other problems which appeared at first to be critical proved to be inconsequential. For example, there was concern lest strong winds would carry the mist completely away from the area. This problem was solved by placing polyethylene panels around the sides of the structure.

#### Changes in 1954

The summer of 1954 brought forth the obvious changes. The switch from sand to vermiculite was extremely important for the selected mode of operation. The profound reduction in base cutting rot and the ease in removing the rooted cuttings proved the value of this medium.

Timing, a point often emphasized by Mr. Wells (and rightfully so), is important if one is going to accomplish his objectives before warm weather ceases. This past year the house was filled with 49,000 cuttings by late June. This enabled the cuttings to root in time to be banded during late July and early August. With some easily rooted items, such as *Hedera helix bulgarica* and *Salix purpurea nana*, two successions of cuttings were possible.

Plants propagated during the summer of 1954 with results obtained are shown in the table on page 13.

As one can see from the table, the junipers, with the exception of *Juniperus chinensis keteleeri*, and the taxus varieties were omitted in the summer of 1954. It is believed that with the propagation facilities at the nursery, it will be better to winter propagate plants of these two genera.

In summation I should like to echo opinions undoubtedly voiced by anyone who has propagated outside under constant mist. The problem of rooting the cutting is, in my opinion, secondary—the foremost problem is the handling of the rooted cutting as it comes out of the mist house. The technique in this respect can probably be improved at this nursery. While the percentage of rooting was pleasing, the percentage of rooted cuttings established in bands can be improved.

#### Reducing Moisture

It was attempted to harden cuttings before banding by gradually reducing the amount of moisture, on the order of Richard Fillmore's re-

duction in moisture by means of a timing device. The lugs filled with the cuttings were brought to an auxiliary bench outside the house where occasional moisture would drift across the cuttings. After rooting, the cuttings were banded into cypress plant bands using the John Innes compost as a potting medium. In this connection, it has been felt that perhaps the John Innes base is too strong for some tender rooted softwood cuttings. Perhaps the high plant food nutrients are too strong for these newly rooted cuttings to assimilate. It is proposed, next year, to reduce the John Innes base in running checks to see if there is any relation between the strength of the John Innes base and the percentage of establishment of the rooted cuttings in the bands.

As Mr. Wells sagely told me last year, the farther one progresses into propagation, the more questions and problems that confront one. During the coming years, further challenges will undoubtedly present themselves in outdoor propagation under constant mist, but by perfecting techniques perhaps many of the challenges [Continued on page 48]

## Who's Who: Pennsylvania President

Al Vick, president of the Pennsylvania Nurserymen's Association, owner of Vick's Wildgardens, Gladwyne, Pa., has a long background in horticulture. Nearly a century ago his great-grandfather, James Vick, Sr., founded the famous seed firm at Rochester, N. Y., in 1860.

Born at Washington, D. C., and residing at Narberth, Pa., in his youth, Al Vick attended Franklin and Marshall college, after which he became associated with his father's

landscape business as a job foreman, in 1937.

In 1938 a tract of 70 acres was purchased at Glen Moore, Pa., where the Vicks specialized in growing wild plants, in which was developed an extensive mail-order business.

The condemnation of the Glen Moore property for the construction of the Pennsylvania turnpike in 1948 terminated this phase of the Vick operations and, with the death of Albert Vick, Sr., compelled a change of approach. Now the emphasis is on the designing and building of wild gardens, naturalistic landscaping, tree care and preservation, service and maintenance. A tract of 31 acres has just been purchased at Gladwyne, Pa., where healing-in grounds, propagating beds, greenhouses and coldframes will be installed.

Al Vick is a past president of the Bala Cynwyd Rotary Club, a past vice-president of the local junior chamber of commerce and a member of the executive committee of the Philadelphia flower show. Vick exhibits have been awarded a number of prizes at the Philadelphia shows. Mr. Vick's hobbies are fishing, painting and, of course, gardening. He is married and has four children.



Al Vick



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| <i>Juniperus chinensis columnaris</i> ..             | 25.00         | \$45.00 | <i>Thuja occidentalis pyramidalis</i> ..  | 17.50         | —       |
| <i>Juniperus chinensis torulosa</i> ....             | 20.00         | 35.00   | <i>Thuja orientalis bakeri</i> .....      | 17.50         | —       |
| <i>Juniperus communis hibernica fastigiata</i> ..... | 17.50         | 35.00   | <i>Thuja orientalis Blue Cone</i> .....   | 17.50         | —       |
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## PLANT NOTES HERE AND THERE

By C. W. Wood

After writing my recent note on *Silene elizabethae*, I began thinking that a brief resume of other foreign catchflies might be useful, and a letter from an eastern correspondent asking about *Silene zawadski* clinches the matter.

I can commence the discussion by being a little pessimistic about *S. acaulis*, the catchfly by which many writers and gardeners judge all the kinds. Why this species should be the standard is beyond me, because it is not easy to grow in the average lowland garden, and when one does succeed with it, he obtains little more than a cushion of green, mossy growth out of it. Nonflowering, even in healthy specimens, has been the experience here in northern Michigan with nine out of 10 plants of *S. acaulis* in our trials. There were occasional plants that showed more indication to bloom, and a few times we had forms, including the one generally known as *S. elongata* (little more than a variety of *acaulis*), that were free flowering. There is also a double-flowered form of the latter that should be good. Propagation is by divisions or cuttings in early summer, the former perhaps best taken a little later (say July) than cuttings.

On the other hand, *Silene alpestris* is always delightful, entrancing the discriminating gardener with its shining, deep green carpet and with a generous display of white flowers on 4-inch stems, abundantly during part of May and all of June and more sparingly through the summer. It is one of my favorite plants, when rightly placed, as in an eastward-facing wall, planted low where it will be assured of enough moisture to keep it smiling through the summer. It needs neither a wall nor a rock garden for its comfort or for a place to display its charms, for it will do splendidly as an edging to the border, for special planting or for grouping at the front of the border.

There are a number of small things in *Silene*, close to *alpestris* in some ways, though not always so constant and perhaps far from it in the botanists' scheme of things. One of these I have had several times as *S. quadrifida*. It makes a

low carpet of tangled stems and tiny leaves, fragile in appearance and inconstant in behavior. It did best here in about half shade, where it was assured plenty of moisture all during the growing season. The books say that it should flower in May; it generally did better than that for us, producing small, white catchflies almost all summer. There is also said to be a pink-flowered form, but that I cannot verify from experience.

Others of the same persuasion are *Silene argaea*, a little mite no more than two inches tall, with white flowers for about a month, commencing in early June; *S. monachorum*, which Hortus gives as a synonym of *S. quadrifida*, but it was only half as tall as the latter's four or five inches, though it has the summer-long blooming habit of *quadrifida*; *S. eriophorum*, a much-named thing

(*S. heuffleri*, *S. glutinosum*, *S. veselskyi* and others) on the order of *quadrifida*, but even more tangled of stem, which in turn is sturdier than the other and freer of its white flowers; *S. pusilla*, a lovely little mossy thing, like a 2-inch *quadrifida*. For nursery sales, all except *alpestris* are best handled in pots. All are easy to grow from seeds, as are most *Silenes*, and most of this section may be endlessly increased from divisions of the stools.

### *Silene Maritima*—One of the Best

Anyone who lets familiarity keep him from enjoying *S. maritima*, is, in my estimation, missing one of the best catchflies and an important garden plant. It adapts to almost any place in sun or part shade, adding the beauty of its soft, gray leaves and inflated white flowers through-

[Continued on page 20]

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| 2 to 3 ft., clumps.....  | 6.00   | 50.00   |
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| <i>Viburnum cassinoides</i> | Per 10 | Per 100 |
|-----------------------------|--------|---------|
| 2 to 3 ft., clumps.....     | 5.00   | 40.00   |
| 3 to 4 ft., clumps.....     | 7.00   | 60.00   |

| <i>Viburnum dentatum</i> | Per 10 | Per 100 |
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| 2 1/4 to 3 in. cal.....     | 12.00 11.00   |

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| <i>Paper Birch</i>              | Per 10  | Per 100 |
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| 6 to 8 ft., 3 stems and up..... | 40.00   | .....   |

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|-------------------------------|--------|----------|
| 4 to 6 ft., 3 to 6 stems..... | 20.00  | \$150.00 |
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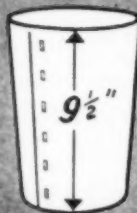
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| <b>Ajuga reptans rubra</b> (Purple-leaved Bugle)<br>A worthy rock plant and ground cover. Has a rich green, slightly bronzed foliage, which is heavy and cleaves close to the ground. Blue flowers. 1-yr., plants  | \$ 8.00                         | \$ 64.00    |
| <b>Aucuba japonica nana</b> (Dwarf Aucuba, Female)<br>This is a dwarf form with lustrous green leaves and a profusion of bright scarlet berries borne in clusters making a combination of unsurpassing beauty. 3 to 6 ins., once transplanted.   | \$13.00                         | \$104.00    |
| <b>Aucuba japonica variegata</b> (Gold-dust Aucuba, Female)<br>Leaves large, glossy, dark green splashed with gold. Hardy. 3 to 6 ins., once transplanted.   | \$13.00                         | \$104.00    |
| <b>Azalea amoena coccinea</b><br>A splendid dwarf evergreen azalea. Foliage dark, glossy and compact. Flowers bright red completely covering the plant. 3 to 6 ins., once transplanted.  | \$14.00                         | \$112.00    |
| <b>Azalea hexe</b> (Firefly Azalea)<br>Dwarf and compact. Foliage heavy, glossy, dark green. Flowers bright red. 3 to 6 ins., once transplanted.   | \$14.00                         | \$112.00    |
| <b>Sherwood Cerise Azalea</b><br>A wonderful dwarf evergreen. Hardy and compact. Foliage dense, dark green. Flowers bright, clear cerise, very lovely and borne in marvelous profusion completely covering the plant. 3 to 6 ins., once transplanted.  | \$14.00                         | \$112.00    |
| <b>Sherwood Red Azalea</b><br>Compact, dwarf and evergreen. Flowers the most brilliant blood-red imaginable. 6 to 9 ins., once transplanted.   | \$17.00                         | \$136.00    |
| <b>Berberis darwini</b> (Darwin Barberray)<br>A native of South America from Chili to Patagonia. Evergreen, reaching a height of about 5 ft. Foliage is deep green, glossy and compact. 3 to 6 ins., once transplanted.  | \$13.00                         | \$104.00    |
| <b>Cedrus deodara</b> (Deodar Cedar)<br>The Deodar Cedar grows into a fountain of green of unsurpassing beauty. The color is a light bluish-green. 3 to 6 ins., once transplanted.   | \$11.00                         | \$ 88.00    |
| <b>Chamaecyparis lawsoniana ellwoodii</b> (Ellwood Cypress)<br>A semidwarf and comparatively new addition to the cypress family which has added such a long list to the trees that we admire and love. 6 to 9 ins., once transplanted.   | \$14.00                         | \$112.00    |
| <b>Chamaecyparis lawsoniana minima glauca</b> (Little Blue Cypress)<br>A beautiful true dwarf conifer, dark and dense, bluish-green foliage, erect and slow growing. Rounded pyramid in shape. 1 to 3 ins., once transplanted.   | \$14.00                         | \$112.00    |
| <b>Chamaecyparis obtusa nana</b> (Dwarf Hinoki Cypress)<br>A real genuine dwarf having exceedingly dense, heavy, dark foliage with a slight bluish tinge unchanging throughout the year. Hardy. 1 to 3 ins., once transplanted.  | \$14.00                         | \$112.00    |
| <b>Cotoneaster horizontalis</b> (Rock Cotoneaster)<br>Well known and deservedly a great favorite; low growing. The side branches grow with a pleasing perfection of regularity; the leaves are small. 1 to 3 ins., once transplanted.  | \$ 9.00                         | \$ 72.00    |
|  | 3 to 6 ins., once transplanted. | 10.00 80.00 |
| <b>Cotoneaster parneyi</b> (Parney Cotoneaster)<br>This is probably the best of the upright cotoneasters. It is evergreen, with large leaves of heavy, dark green effect. Bears berries of brilliant red luster and in almost unbelievable profusion, being in large clusters all along the stems. 15 to 18 ins., once transplanted. | \$26.00                         | \$208.00    |

|  |  |              |
|--|--|--------------|
| <b>Cryptomeria japonica lobbi</b> (Lobb Cryptomeria)<br>An upright, shapely, dwarf conifer growing to a few feet in height. 3 to 6 ins., once transplanted.  | Per 100  | Per 1000     |
|  | \$18.00  | \$144.00     |
| <b>Cryptomeria japonica nana</b> (Dwarf Cryptomeria)<br>Light green, hardy, very compact globe, extremely dwarf. 3 to 6 ins., once transplanted.   | \$18.00  | \$144.00     |
| <b>Daphne mezereum rubra</b> (Red February Daphne)<br>An erect shrub with stout branches and growing to a height of 4 ft. The lilac-purple flowers, like several other daphnes, are delightfully fragrant. 1 to 3 ins., not transplanted.  | \$ 9.00  | \$ 72.00     |
| <b>Gaultheria procumbens</b> (Wintergreen)<br>The fine foliage, the small, delicate, pink, bell-shaped flowers, the brilliant red berries and its hardiness combine to make it one with our peer in its class. 2-yr., once transplanted.   | \$10.00  | \$ 80.00     |
| <b>Kalmia latifolia</b> (Mountain Laurel)<br>Native of the Appalachian mountains. Compact, symmetrical. Plants are literally bouquets of lovely, cup-shaped flowers. 6 to 9 ins., once transplanted.   | \$20.00  | \$160.00     |
|  | 9 to 12 ins., once transplanted.                 | 25.00 200.00 |
| <b>Mahonia aquifolium</b> (Oregon Grape)<br>An ornate little evergreen shrub, native of Oregon where it is much loved. 3 to 6 ins., once transplanted.   | \$12.00  | \$ 96.00     |
| <b>Mahonia nervosa</b> (Long-leaved Hollygrape)<br>Plants grow 12 to 18 ins. tall. The leaves which are 12 to 15 ins. long are beautifully fernlike in form. 6 to 9 ins., once transplanted.   | \$15.00  | \$120.00     |
| <b>Nandina domestica</b> (Nandina)<br>Delicate foliage, large clusters of bright red berries. Leaves turn in autumn to attractive shades of red, bronze and scarlet. 9 to 12 ins., once transplanted.  | \$17.00  | \$136.00     |
| <b>Pachysandra terminalis</b> (Japanese Spurge)<br>Of Japanese origin, is evergreen and grows in dense masses, with especially full development at the terminals of the stems. 2-yr., plants   | \$10.00  | \$ 80.00     |
| <b>Pernettya mucronata</b> (Chilean Pernettya)<br>Also known as South American Huckleberry. Neat evergreen foliage, white flowers. The shrub reaches a height of 4 to 5 ft. and a spread of 3 or 4 ft. Pink-berried, 9 to 12 ins., once transplanted.  | \$18.00  | \$144.00     |
|  | White-berried, 12 to 15 ins., once transplanted. | 21.00 168.00 |
| <b>Photinia serrulata</b> (Chinese Photinia)<br>Native of China. A hardy, rapid-growing evergreen with large, dark green, glossy leaves having serrated edges. Without doubt one of the most desirable of all broad-leaved shrubs. 1 to 3 ins., once transplanted.   | \$14.00  | \$112.00     |
| <b>Picea excelsa</b> (Norway Spruce)<br>One of the best known and one of the hardiest of conifers. Native of northern Europe. Conical in form of growth and with deep green foliage. 9 to 12 ins., once transplanted.  | \$12.00  | \$ 96.00     |
| <b>Pinus jeffreyi</b> (Jeffrey Pine)<br>A rather open picturesque, spire-shaped conifer native of Oregon. Symmetrical and often with pendulous branches. A blue pine, distinct and highly ornamental. Needles long and silvery blue. Hardy to Massachusetts. 3 to 6 ins., once transplanted.               | \$10.00  | \$ 80.00     |
| <b>Pseudotsuga douglasii</b> (Douglas Fir)<br>A truly stately tree and while it reaches great size and height, it also possesses great ornamental values. 6 to 9 ins., twice transplanted.   | \$13.00  | \$104.00     |
| <b>Skimmia japonica</b> (Oriental Skimmia)<br>Densely branched, low-growing shrub, reaching a height and spread of 3 ft. Valued for its broad lustrous foliage and brilliant red fruit. Female, 1 to 3 ins., once transplanted.  | \$ 9.00  | \$ 72.00     |
|  | Male, 1 to 3 ins., once transplanted.            | 9.00 72.00   |
| <b>Taxus cuspidata</b> (Japanese Yew)<br>This beautiful yew is a native of the Orient and is hardy, strong and dwarf. It is a spreading tree and in older specimens may reach a spread of 20 ft. 3 to 6 ins., once transplanted.   | \$15.00  | \$120.00     |
| <b>Thuja orientalis beverlyensis</b> (Beverly Hills Arborvitae)<br>A rapid-growing, oriental arborvitae. Foliage good, bright golden color the year round. The tree is usually laden with clusters of small green cones in the fall which enhance its ornamental value. 12 to 15 ins., twice transplanted. | \$28.00  | \$224.00     |



# BARE-ROOT EVERGREENS — FINEST TO BE HAD

stock, with heavy vigorous root system.

|   |         |          |
|---|---------|----------|
| <i>Tsuga canadensis</i> (Canada Hemlock)  | Per 100 | Per 1000 |
| Native New Brunswick to Wisconsin and south to Alabama. A well-known conifer of graceful, pleasing habit of growth.                               |         |          |
| 12 to 15 ins., once transplanted.....   | \$21.00 | \$168.00 |
| <i>Umbellularia californica</i> (Oregon Myrtle)   |         |          |
| A handsome hardy evergreen tree, 25 to 30 ft. in height and sometimes reaching 75 ft. Native of southern Oregon and northern California.          |         |          |
| 3 to 6 ins., once transplanted.....   | \$15.00 | \$120.00 |
| <i>Veronica hectori</i>   |         |          |
| A very unusual evergreen with russet-green foliage in summer turning to a rich golden color in the winter season.                                 |         |          |
| 6 to 9 ins., once transplanted.....   | \$14.00 | \$112.00 |
| <i>Veronica officinalis</i> (Ground Speedwell)  |         |          |
| A remarkable, hardy, evergreen ground cover for shady places. Thrives under trees and in deep shade where no grass will grow.                     |         |          |
| Rooted layers.....  | \$7.00  | \$56.00  |
| <i>Vinca minor</i> (Common Periwinkle)  |         |          |
| Also called Blue, Running or Trailing Myrtle. Hardy, evergreen, trailing herb. Native to Europe. Has blue flowers. Well known in country gardens. |         |          |
| 1-yr., once transplanted.....   | \$10.00 | \$80.00  |
| 25 per cent will reserve lining-out stock, balance C.O.D.   |         |          |

## BARE-ROOT STOCK

|  |         |  |
|--|---------|--|
| The prices here quoted on bare-root stock are F.O.B. Portland, Ore., but include free expert packing.  |         |  |
| <i>Sherwood Orchid Azalea</i>  | Per 100 |  |
| Flowers are a clear lavender and completely cover the plant. Dwarf.  |         |  |
| 9 to 12 ins., twice transplanted, B.R. specimens.....  | \$65.00 |  |
| <i>Calluna vulgaris aurea</i> (Golden Heather)   |         |  |
| Possesses fine golden foliage that heads up in many of the stems in mosslike clusters.   |         |  |
| 12 to 15 ins., twice transplanted, B.R. specimens.....   | \$61.00 |  |
| <i>Calluna vulgaris rubra</i> (Red Heather)  |         |  |
| The Red Heather has become one of the popular garden evergreens.   |         |  |
| 12 to 15 ins., twice transplanted, B.R. specimens.....   | \$61.00 |  |
| <i>Chamaecyparis lawsoniana stewartii</i> (Wintergolden Cypress)   |         |  |
| Rather slender golden tree. Foliage erect with pendulous tips toward the top of the tree. One of the most remarkable and most admired of conifers. |         |  |
| 15 to 18 ins., twice transplanted, B.R. near specimen.....   | \$37.00 |  |
| <i>Daboecia polifolia alba</i> (White Irish Bell Heather)  |         |  |
| Similar to the rosea, but having nodding flowers of purest white, resembling Lily-of-the-Valley in form and size. Beautiful hardy evergreen.       |         |  |
| 9 to 12 ins., twice transplanted, B.R. specimens.....  | \$49.00 |  |
| 12 to 15 ins., twice transplanted, B.R. specimens.....   | 61.00   |  |
| <i>Daboecia polifolia rosea</i> (Pink Irish Bell Heather)  |         |  |
| A splendid dwarf evergreen growing 2 ft. high. Foliage fine, dark green above, silvery beneath. The flowers are abundant, rosy-lavender.           |         |  |
| 9 to 12 ins., twice transplanted, B.R. specimens.....  | \$49.00 |  |
| 12 to 15 ins., twice transplanted, B.R. specimens.....   | 61.00   |  |
| <i>Erica hybrida</i> (Dawn)  |         |  |
| One of the attractive new evergreens. Foliage soft. The flowers are large, clustered pink bells.   |         |  |
| 6 to 9 ins., twice transplanted, B.R. specimens.....   | \$41.00 |  |
| <i>Juniperus chinensis pfitzeriana</i> (Pfitzer Juniper)   |         |  |
| This well-known juniper can scarcely be excelled for terrace and mass planting.  |         |  |
| 12 to 15 ins., twice transplanted, B.R. near specimen.....   | \$65.00 |  |
| <i>Juniperus chinensis sargentii</i> (Sargent Juniper)   |         |  |
| Bluish-green. It is a wide, low-growing, spreading juniper reaching a height of only one foot and a spread of 10 to 12 ft.                         |         |  |
| 9 to 12 ins., twice transplanted, B.R. near specimen.....  | \$49.00 |  |

|  |         |  |
|--|---------|--|
| <i>Juniperus horizontalis</i> (Bar Harbor Blue Creeping Juniper)   | Per 100 |  |
| Procumbent with trailing, spreading branches well filled with foliage, forming a compact mat in mature plants. Foliage is charming steel-blue.   |         |  |
| 9 to 12 ins., twice transplanted, B.R. near specimen.....  | \$49.00 |  |
| <i>Juniperus horizontalis</i> (Bar Harbor Green Creeping Juniper)  |         |  |
| This is a lovely green form. During the winter months the foliage turns to a rich bronze. Procumbent and trailing, forming heavy, compact mats of luxuriant foliage cypresslike in texture.  |         |  |
| 12 to 15 ins., twice transplanted, B.R. near specimen.....   | \$65.00 |  |
| <i>Juniperus horizontalis glauca</i> (Blue Creeping Juniper)   |         |  |
| Very similar to the Bar Harbor Blue with steel-blue foliage throughout the year and more cypresslike in texture. A very lovely trailing form. Very hardy.  |         |  |
| 9 to 12 ins., twice transplanted, B.R. near specimen.....  | \$49.00 |  |
| <i>Juniperus horizontalis plumosa</i> (Andorra Juniper)  |         |  |
| One of the more recent introductions in creeping junipers. It grows close to the ground.   |         |  |
| 12 to 15 ins., twice transplanted, B.R. near specimen.....   | \$65.00 |  |
| <i>Juniperus sabina tamariscifolia</i> (Tamarix Savin Juniper)   |         |  |
| Color a bright, cheerful bluish-green throughout the year, symmetrical and compact in form and growth, seldom over 18 ins. high.   |         |  |
| 9 to 12 ins., twice transplanted, B.R. specimens.....  | \$66.00 |  |
| <i>Juniperus sabina vonehron</i> (Von Ehron Juniper)   |         |  |
| Has a low, bushy habit of growing, somewhat vase-shaped like the Savin Juniper. Foliage luxuriant and bright green all the year reaching out in wide flat sprays. Rapid growing and desirable.   |         |  |
| Very hardy.  |         |  |
| 12 to 15 ins., twice transplanted, B.R. near specimen.....   | \$65.00 |  |
| <i>Juniperus virginiana tripartita</i> (Fountain Juniper)  |         |  |
| The name describes fairly well the form of growth, it being semi-upright but spreading. It is thickly branched and has dense foliage.  |         |  |
| 12 to 15 ins., twice transplanted, B.R. near specimen.....   | \$65.00 |  |
| <i>Pinus mughus compacta</i> (Mugho Pine)  |         |  |
| A dense, stout dwarf evergreen, of unquestionable hardness. Coming from the high mountains of central Europe, it has been dwarfed as trees frequently are that are storm-swept for centuries.  |         |  |
| 9 to 12 ins., twice transplanted, B.R. specimens.....  | \$73.00 |  |
| <i>Thuja occidentalis</i> (American Arborvitae)  |         |  |
| Native New Brunswick and Manitoba to North Carolina and Illinois. An old, standard favorite. Grows in compact form, narrow pyramid in shape.   |         |  |
| 15 to 18 ins., twice transplanted, B.R., hedging grade.....  | \$41.00 |  |
| 18 to 24 ins., twice transplanted, B.R., hedging grade.....  | 49.00   |  |
| 2 to 3 ft., twice transplanted, B.R., hedging grade.....   | 73.00   |  |
| <i>Thuja occidentalis pyramidalis</i> (American Pyramidal Arborvitae)  |         |  |
| A most desirable arborvitae of narrow columnar growth, dense and compact without pruning. Planted in groups it produces a most impressive alpine effect. In situations where effective hedges requiring but little space are desired, Pyramidal Arborvitae has no counterpart. |         |  |
| 2 to 3 ft., twice transplanted, B.R., hedging grade.....   | \$73.00 |  |
| Twenty-five per cent will reserve bare-root stock, balance in full before shipping. 25 plants at the 100 rate; 250 plants at the 1000 rate.  |         |  |

No order booked without a deposit.

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From Alaska: "The plants arrived much sooner than I expected and in excellent condition."

From Missouri: "The lining-out collection which you sent me is such outstanding value that I want you to duplicate it."

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## JUNIPERS

Chinensis columnaris, Blue  
Chinensis columnaris, Green  
Chinensis pfitzeriana, Blue  
Kosteriana plumosa  
Scopulorum, Chandler  
Scopulorum, Crawford  
Scopulorum horizontalis  
Scopulorum moffeti  
Scopulorum Cologreen  
Scopulorum Pathfinder  
Scopulorum, Sutherland  
Scopulorum welchi  
Virginiana burki  
Virginiana canaerti  
Virginiana cupressifolia  
Virginiana keteleeri  
Virginiana Hill's Dundee

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out the summer. Given good living, it is likely to become lank and limp, losing much of its charm; let its food and moisture (it can manage on little of either when once established) be reduced and it remains a compact, lovely thing. It is a plant of myriad uses in the garden, not alone for the rock garden but for edging and for groups in flower and shrub borders.

Then, if one has window gardeners among his customers, he should try potting a few plants in early winter, growing them cool until growth is active and offering them when gardeners are looking forward to spring. There is a double-flowered form, whose attempt at being a carnation never had much appeal for me. There are also pink-flowered forms, more pink by courtesy than by fact, so far as I know them.

Although *Silene saxifraga* is usually lightly spoken of by the sophisticates, it has always had a place in my affections, not only because of a summer-long blooming habit but also for its airy grace and for an indestructible constitution. Its airy mounds and graceful, wiry stems to a height of four inches or so, bearing whitish flowers throughout the summer, will suggest its uses.

*S. saxifraga* may be taken as the type of a large group of similar kinds, including the following: *S. caespitosa*, which makes a forest of 8-inch stems, with pale pink to whitish flowers; *S. campanula*, which was almost indistinguishable from *S. saxifraga* in material grown here; *S. oreades*, also too close to *saxifraga* to demand our attention, and *S. orphanidia*, of *saxifraga* persuasion, which has foot-tall stems and flowers larger and whiter than *saxifraga*. The last-named plant is on the tender side (not hardy here).

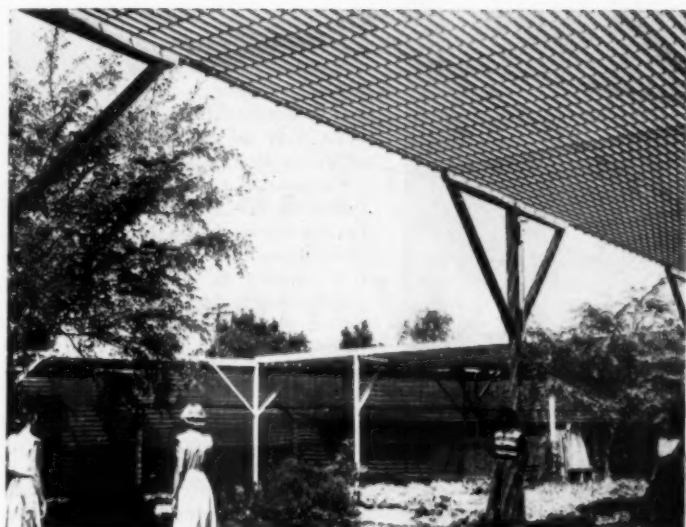
Purists may cavil at the harsh shade of the flower of *Silene schafta*, but the fact remains that it is one of the most popular catchflies. And it is rightly so, for it gives color (rose) in late summer and early autumn, when color of almost any kind is appreciated by most gardeners. These same gardeners appreciate its easy-going disposition, for it will make its generous tufts and produce a prodigious number of flowers, on 5-inch stems, under the most adverse growing conditions.

### True *Silene Zawadski*

There are others of low stature, of course, but these notes are becoming overly long even now, and we still have the one inquired about, *S. zawadski*, and a tall one or two. As we have grown *zawadski* from



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seeds from various sources, it is apparent that the true plant is seldom offered, and I am not sure now that we ever had the real thing. When Farrer speaks of it as having "up-standing stems, of four or five inches," which "unfurl in late summer, one above the other, three or four quite uninteresting greeny-white flowers, sometimes a little tinged with pink," I am sure that I missed it. Then when I have an 8-inch plant with large, white flowers, made up of 2-parted petals, corresponding to what some of the botanists say about it, I think that I have the true zawadski and know that I have a good garden plant. If that is zawadski, it is indestructible in a free, gritty soil.

*Silene grandiflora*, as seen in gardens, may be one of at least three different species, *S. asterias*, *S. alpestris* or *S. acaulis*. Generally it refers to the first-named, and it is then a showy plant, reputedly biennial, though not necessarily so, but it is ordinarily short-lived. If one thinks that it deserves its reputation of being common, ordinary, vulgar or the other disparaging terms which have been applied, he should try a planting in his show garden, but he should be sure to have a reserve stock to take care of the demand when it displays its tousled, crimson heads throughout June. The fact some of the carping critics talk about it as being a foot tall makes me think they do not have the real thing, for it should become close to three feet tall, and its flower heads deserve the descriptive term, "balls of fire," sometimes applied to it. It self-sows.

Another catchfly for which I acquired an affection, while it was in our trials during the 1930's, is the Chinese *S. fortunei*. We also had it as *S. delavayi*, though I understand the latter is a distinct species. Here it grew about two feet tall, its hairy stems bearing raceme-like clusters of rose or white flowers throughout most of the summer. Although the petals are so deeply cut that the flowers have a somewhat ragged appearance, that does not detract from its beauty. And best of all from a busy gardener's standpoint, the plant is so easily satisfied that it gives no trouble at all; also, it generally blooms the first year from seeds.

#### Some Thoughts on Columbine

One of my most pleasant winter pastimes is reading Thomas Meehan's work, "The Native Flowers and Ferns of the United States," a task which is going on as this note is written. In fact it was his remarks



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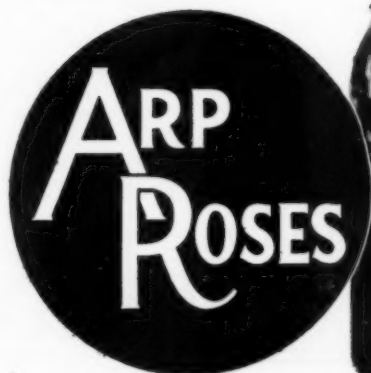
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*Cotoneaster Francheti*  
*Cotoneaster Horizontalis*  
*Elaeagnus Fruitlandi*  
*Elaeagnus Simoni*  
*Euonymus Coloratus*  
*Euonymus Fortunei Erectus*  
 (small leaf)  
*Euonymus Patens*  
*Gardenia Fortunei*  
*Ilex Cornuta Burfordi*  
*Ilex Cornuta Femina*  
*Ilex Crenata Convexa*  
*Ilex Crenata Rotundifolia*  
*Ilex Opaca East Palatka*  
 (heavily sheared)  
*Ilex Vomitoria*  
 (well sheared)  
*Pride of Houston*  
*Jasminum Floridum*  
*Laurel Cherry*  
 (well sheared)  
*Ligustrum Lucidum*  
 (Griffing type)  
*Ligustrum Lucidum*  
 (Black Wax)  
*Ligustrum Lucidum Nanum*  
*Loropetalum Texanum*  
*Magnolia Glauca*  
*Magnolia Grandiflora*  
*Magnolia Soulangeana*  
*Magnolia Soulangeana Nigra*  
*Nandina Domestica*  
*Photinia Serrulata*

## CONIFERS

*Arborvitae, Or. Baker*  
*Arborvitae, Or. Berckmans*  
 (Aurea Nana)  
*Arborvitae, Or. Blue Cone*  
 (very compact)  
*Arborvitae, Or. Bonita*  
*Arborvitae, Or. Bonita Golden*  
*Arborvitae, Or. Excelsa*  
*Arborvitae, Or. Fruitland*  
 (Green Berckmans)

## CONIFERS, cont.

*Arborvitae, Or. Newark*  
*Arborvitae, Occ. Globosa*  
*Arborvitae, Occ. Pyramidalis*  
*Arborvitae, Occ. Nigra*  
 (Dark Green)  
*Cedrus Deodara*  
*Juniper, Andorra*  
*Juniperus Excelsa Stricta*  
*Juniperus Glauca Hetzi*  
*Juniperus Glauca Hetzi*  
 (staked and sheared)  
*Juniperus Fastigiata*  
*Juniperus Hibernica*  
 (Irish)  
*Juniperus Pfitzeriana*  
*Juniperus Pfitzeriana Compacta*  
*Juniper Pfitzeriana Aurea*  
*Juniperus Sabina*  
*Juniperus Sabina Vonehron*  
*Juniperus Sabina Vonehron*  
 (staked and sheared)  
*Juniperus Scopulorum*  
*Juniperus Sylvestris*  
 (Chinensis Femina)  
*Juniperus Virginiana Burki*  
*Juniperus Virginiana Canaerti*  
*Juniperus Virginiana Dundee*  
*Juniperus Virginiana Glauca*  
*Pinus Mughus*  
*Pinus Nigra*  
 (Austrian Pine)  
*Pinus Sylvestris*  
 (Scotch Pine)

## CANNED STOCK

*Abelia Grandiflora*  
*Gardenia Fortunei*  
*Gardenia Mystery*  
*Ilex Burfordi*  
*Ilex Convexa*  
*Ilex Rotundifolia*  
*Ilex Helleri*  
*Magnolia Grandiflora*  
*Pyracantha Formosana*  
 (light)  
*Pyracantha Lalandi*  
 (light)  
*Crape Myrtle*

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on the terms "aquilegia" and "columbine" in his chapter on *A. chrysantha* that prompted exploration into the realms of fancy. Considering the number of times that I have read the four volumes, I should know them by heart, but they are of never-failing interest, and I nearly always discover some new facet in almost every plant.

For instance, it just dawned on me that the golden columbine has been known to science for less than 75 years and to gardeners for much less than that. Meehan's opus was published in 1878, and in it he wrote: "This, the Golden Columbine, has been definitely known only for a short time. Nuttall, Thurber, Wright and Parry met with it in their travels through the Southwest; but it was thought to be a variety of another species until Dr. Gray described it . . ." But I shall return to what I started out to do—dwell a few moments on the common and scientific names.

## Tracing the Name

In tracing the name "columbine" back through the years, it is interesting to note that, unlike many other plants which have been known to gardeners under long lists of common names, its current name, columbine, is the only one applied to the present plant, so far as I can determine. The title comes, nurserymen are told, from the Latin word for dove, but the connection with the plant or its flower is not readily apparent, unless one accepts Prior's explanation, which he recorded in his book, "Popular Names of British Plants." There he compares the flower of the common short-spurred species, when the plants are set on the ground with the horns (spurs) pointing upward, as many old pictures show the plant, to doves feeding from a dish. Erasmus Darwin likened the flower to a nest of young doves, stretching forth their heads as a parent came to the nest with food. Someone has shown the inaccuracy of that observation, however, by pointing out the fact that the dove has but two young at a time.

Before passing on to something of more consequence to the materialistic side of plant growing, I should like to quote briefly from Meehan on the scientific name of the plant. "The name, aquilegia, given to this genus," he wrote, "has not been satisfactorily accounted for. Gray, Darlington and other botanists say it is from the Latin aquila, an eagle, from a fancied resemblance in the long spurlike nectaries to the talons of an eagle; but it is quite as likely



# Plant in a Jiffy . . . with JIFFY-POTS

Here is a brand-new (to this country), inexpensive plant container which stole the show at our display on Field Day last summer. Constructed in Norway (under the name Huminal Pot) of 25% wood fiber and 75% peat, Jiffy-Pots contain supplementary soluble fertilizers—nitrogen, phosphorus and potash. Available in 2¼ and 3-in. pots, they are rigid except when thoroughly soaked and will stand considerable handling and shipping abuse.

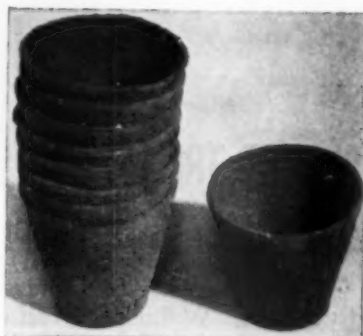
This is an expendable pot—and cannot be re-used. Roots grow through it very easily and become part of the pot very early in growth. We have grown bedding plants in 3-in. Jiffies up to twelve weeks with several moves, and they have remained substantially intact. For best results, let dry out a couple of days before moving or transplanting.

**Advantages:** Jiffy-Pots support phenomenal plant growth. Just why plants grow so well in Jiffy-Pots we are not sure. The soluble fertilizer contained in the pot no doubt has something to do with the bonus performance. They need less frequent waterings, as they dry out slower than other pots. Jiffy-Pots need not be removed when transplanting. Roots grow readily through the walls of the pot when the whole pot is plunged into the soil. They are extremely light for shipping—carton of 3000 2¼'s weighs 35 pounds. They are inexpensive—in quantities the 2¼'s are about 6/10c and the 3's about 1c.

## NURSERY USES FOR JIFFY-POTS

**Perennials**—as a growing-shipping container, or for lining out into the field. Jiffies need not be removed from plants—no root shock.

**Taxus, Junipers, all cutting-propagated evergreens** may be handled in Jiffies from the propagating bench. Jiffies disintegrate immediately when plunged into soil, and roots grow readily through them—yet they are sufficiently strong to withstand several moving operations while plants are being grown in them prior to field planting.



JIFFY-POTS are available in the same size and tapered shape as 2¼ and 3-in. clay pots. Nest for shipping.



Marigold, after 12 weeks' growth. Note how freely roots penetrate walls.

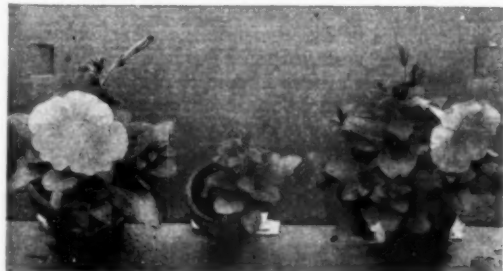
## PRICES JIFFY-POTS

| Quantity              | 2¼-in.<br>Per 1000 | Quantity              | 3-in.<br>Per 1000 |
|-----------------------|--------------------|-----------------------|-------------------|
| 3000 Minimum .....    | \$7.75             | 1500 Minimum .....    | \$14.00           |
| 6000 to 18,000.....   | 6.75               | 3000 to 9000.....     | 12.00             |
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2¼-in. packed in units of 3000 only. 3-in. packed in units of 1500 only.

Weight per units—35 lbs.

State how to ship: truck, freight or express



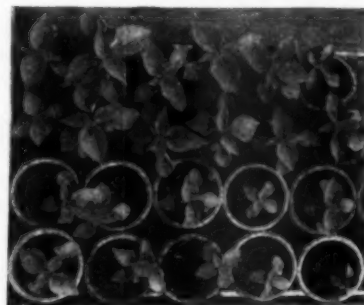
Petunias. Left 3-in. clay pot, center 2¼-in. clay pot, right 2-in. Jiffy-Pot. Note heavy growth sustained by Jiffy after 10 weeks. Petunia Pink Sensation sown March 1, photo May 10.

## Package Deal

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One box 3000  
2¼-in.....\$23.25

One box 1500  
3-in..... 21.00



Salvia. 2-in. clay pots bottom two rows, 2-in. Jiffy-Pots top two rows. This was an eye-opener. We weighed the plants—Jiffies were almost 50% heavier after 10 weeks.

# GEO. J. BALL, Inc.

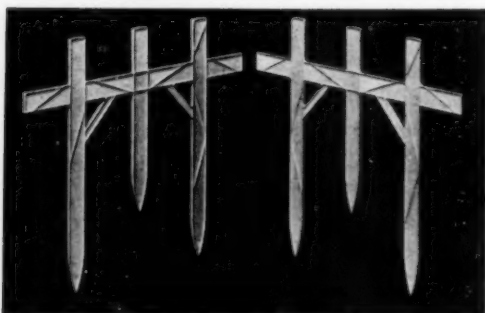
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to be from aqua, water, and lego, to collect, in allusion to their pitcher-like appearance. The spurs, however, being generally horizontal, or even erect in some cases, would really be unable to collect much rain, but names are often given as much from fancy as from fact." Since writing the foregoing, I have referred to Gerard and find the following on the names, as Gerard put it: "Columbine is called of the later Herbarists, Aquilegia: of some, Herba Leonis, or the herbe wherein the Lion doth delight."

## Sedum Cauticolum

From advance notices I see with much satisfaction that one of the large mail-order, retail nurseries will feature *Sedum cauticolum* in 1955. My satisfaction comes from the fact that the plant will enrich gardens and also because it is a slight indication that the scoldings in this column during the past decade about the neglect of a wealth of good garden material in sedum may be bearing fruit. Anyway, it is a start in the right direction, and we can only hope that it does not stop here.

*Sedum cauticolum* was named and described by Praeger in 1917 from material from a Japanese botanic garden. I take it from Praeger's notes on the species in his monograph of the genus that the Japanese botanists associated the plant with *S. sieboldi*, which is easily understood by a gardener, because it is somewhat similar when examined superficially, as gardeners usually look at their plants. Follow it through the year, however, and one will see much to set it apart, including leaves opposite instead of ternate in *sieboldi* and an extremely leafy inflorescence. Its flowering period, which falls two weeks or more before that of *sieboldi*, adds much to its garden value.

Like others of the telephium section, it grows from a thickened rootstock, sending up from a few to many, depending upon the plant's age, arching purplish branches, clothed in pretty glaucous leaves and ending in an umbellate cyme of rosy-purple flowers, commencing in September. Although the stems are usually about six inches long, its actual height seldom, because of arching, or even procumbent, stems, exceeds three or four inches. It has many characteristics (some pointed out in the foregoing) to endear it to the gardener, and it is not alone in the genus in that respect. If one will investigate the entire group, he will find, I think, many more kinds that gardeners will buy and use.

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|                      | Per<br>25 | Per<br>50 | Per<br>100 | Per<br>250 | Per<br>1000 |
|----------------------|-----------|-----------|------------|------------|-------------|
| Albritton, midseason | \$0.50    | \$1.10    | \$1.75     | \$3.50     | \$12.00     |
| Ambrosia Late, late  | .50       | .90       | 1.50       | 3.00       | 10.00       |
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| Aroma, late          | .55       | 1.00      | 1.60       | 3.25       | 11.00       |
| Bellmar, early       | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Big Joe, late        | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Blakemore, early     | .50       | .90       | 1.50       | 3.00       | 10.00       |
| Catskill, midseason  | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Dorsett, early       | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Dunlap, early        | .55       | 1.00      | 1.60       | 3.25       | 11.00       |
| Eden, midseason      | .55       | 1.00      | 1.60       | 3.25       | 11.00       |
| Empire, midseason    | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Fairfax              | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Fairland, early      | .50       | .90       | 1.50       | 3.00       | 10.00       |
| Fairpeake, late      | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Gem, everbearing     | .85       | 1.55      | 2.75       | 6.25       | 22.00       |
| Klondike, early      | .60       | 1.10      | 1.75       | 3.50       | 12.00       |

|                                | Per<br>25 | Per<br>50 | Per<br>100 | Per<br>250 | Per<br>1000 |
|--------------------------------|-----------|-----------|------------|------------|-------------|
| Klonmore, early                | \$0.50    | \$0.90    | \$1.50     | \$3.00     | \$10.00     |
| Massey, midseason              | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Mastodon, everbearing          | .85       | 1.55      | 2.75       | 6.25       | 22.00       |
| Midland, early                 | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Missionary, early              | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Premier, early                 | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Red Crop, midseason            | .50       | .90       | 1.50       | 3.00       | 10.00       |
| Red Star, late                 | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Robinson, midseason            | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Sparkle, midseason             | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Streamliner, everbearing       | .85       | 1.55      | 2.75       | 6.25       | 22.00       |
| Superfection, everbearing      | .85       | 1.55      | 2.75       | 6.25       | 22.00       |
| Temple, early                  | .50       | .90       | 1.50       | 3.00       | 10.00       |
| Tennessee Beauty, midseason    | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Tennessee Shipper, early       | .60       | 1.10      | 1.75       | 3.50       | 12.00       |
| Twentieth Century, everbearing | 1.50      | 2.50      | 3.75       | 8.75       | 30.00       |
| Vermilion, midseason           | .60       | 1.10      | 1.75       | 3.50       | 12.00       |

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| <b>LIGUSTRUM ovalifolium</b><br>(California Privet)        |           |            |             |
| 9 to 12 ins., 2 canes or more                              | \$0.85    | \$ 7.00    | \$5.00      |
| 12 to 18 ins., 3 canes or more                             | 1.20      | 10.00      | 80.00       |
| 18 to 24 ins., 3 canes or more                             | 1.40      | 12.50      | 95.00       |
| 2 to 3 ft., 4 canes or more                                | 1.85      | 16.00      | 145.00      |
| 3 to 4 ft., 6 canes or more                                | 2.75      | 22.50      | 200.00      |
| <b>LIGUSTRUM ovalifolium variegatum</b><br>(Golden Privet) |           |            |             |
| 18 to 24 ins., 3 canes or more                             | 7.00      | 60.00      | ...         |
| 2 to 3 ft., 4 canes or more                                | 8.50      | 75.00      | ...         |
| <b>LIGUSTRUM ibolium</b> (Ibodium Privet)                  |           |            |             |
| 9 to 12 ins., 2 canes or more                              | .85       | 7.00       | 60.00       |
| 12 to 18 ins., 3 canes or more                             | 1.20      | 10.00      | 90.00       |
| 18 to 24 ins., 3 canes or more                             | 1.40      | 12.50      | 105.00      |
| 2 to 3 ft., 4 canes or more                                | 1.85      | 16.00      | 145.00      |
| <b>LIGUSTRUM ibota</b> (Border Privet)                     |           |            |             |
| 18 to 24 ins., 3 canes or more                             | 3.50      | 30.00      | ...         |
| 2 to 3 ft., 4 canes or more                                | 4.50      | 40.00      | ...         |
| 3 to 4 ft., 6 canes or more                                | 5.50      | 50.00      | ...         |
| <b>LIGUSTRUM ibota regelianum</b><br>(Regel Privet)        |           |            |             |
| 12 to 18 ins., 3 canes or more                             | 3.50      | 30.00      | ...         |
| 18 to 24 ins., 3 canes or more                             | 4.50      | 40.00      | ...         |
| 2 to 2 1/2 ft., 3 canes or more                            | 5.50      | 50.00      | ...         |

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| 3-yr., No. 1 | \$1.25    | \$4.00     | \$8.75     | \$30.00     |
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| <b>Berberis thunbergii atropurpurea.</b> |            |             |
| S., 2-yr., 9 to 12 ins....               | \$ 8.00    | \$ 60.00    |
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| T., 2-yr., 9 to 12 ins....               | 10.00      | 75.00       |
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#### Cornus florida.

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| S., 1-yr., grafting size.... | 7.50 | 50.00 |
| S., 1-yr., below grafting.   | 5.00 | 40.00 |

#### Ampelopsis veitchii (Boston Ivy)

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| S., 1-yr., No. 1..... | 7.50 | 60.00 |
| S., 1-yr., No. 2..... | 5.00 | 35.00 |

#### California Privet

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| 1-yr., R.C. .... | 5.00 | 45.00 |
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### COVER ILLUSTRATION

#### Rosa Hugonis

One of the species roses frequently used in landscape plantings is *Rosa hugonis*, interesting for its early, single, yellow flowers.

The Father Hugo rose is upright in growth habit, with spreading and arching branches. It reaches a height of six to eight feet at maturity. The leaflets are relatively small and glabrous, varying in number from five to 13. They are usually oval in outline and are finely toothed. The thorns and bristles are mixed and chiefly restricted to flowering branches. The thorns or prickles are mostly straight.

The outstanding characteristic of the plant is its single, yellow flowers, about two inches across and usually borne on short branchlets. The flowers are produced in May and are effective for about two weeks.

The native habitat of *Rosa hugonis* is central China, from which it was introduced as early as 1899. It is hardy in zone 5 of Rehder. It does well in a wide range of soils provided the site is well drained. It is free from serious insects and diseases and should be used in many situations.

In landscape use the plant is most effective for border planting or as a specimen where its beautiful yellow flowers and red hips (fruit) can be shown to advantage. L. C. C.

### KANSAS NOTES

Lorelei Johnston, daughter of Mr. and Mrs. Ralph Johnston, owners of Ralph's Nursery & Garden Shop, Kansas City, Kan., was married November 5 to John F. Snyder, Jr., Mission, Kan.

Six contracts for roadside improvement, totaling \$27,635.16, were let in Kansas in November and December, divided among six different contractors.

A daughter, DecAnn, was born October 15 to Mr. and Mrs. Dwain Nelson, McPherson, Kan. Mr. Nelson is associated with his father in the Charles R. Nelson & Son Nursery, McPherson.

Stanley Ruby has joined the wholesale sales organization of the Willis Nursery Co., Ottawa, Kan., traveling out of Kansas City. Robert Bulmer, formerly in this territory, has been transferred to Denver, Colo.

THE Georgia Nursery & Landscape Co. has opened in its new location, 6206 Waters road, Savannah, Ga.



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\*Dr. Spencer H. Davis of Rutgers University

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## This Business Of Ours

### Reflections on the Progress and Problems of Nurserymen

By E. Sam Hemming

#### FERTILIZER-PESTICIDE MIXTURES

Many new pest control and fertilization methods have been developed since World War II. One idea that is quite new and is rapidly gaining adoption is the use of fertilizer-pesticide mixtures. Conceiving the idea from using 2-4D and fertilizer to kill weeds, fertilizer manufacturers have offered mixtures of fertilizers and organic pesticide mixtures in order to control certain soil-inhabiting plant pests. The idea has received almost instantaneous acceptance, so that the demand has outstripped knowledge and research, and is pressing on the manufacturers' reluctance to produce a material not fully tested. In addition, liquid urea has been added to plant sprays for orchard application. Similarly, pesticides are being added to liquid lawn and farm fertilizers.

Of interest to nurserymen, the following pesticides are being added to fertilizer mixtures. Aldrin is used for white-fringed beetle, ants, crickets, white grubs and wireworms for certain ornamentals and lawns. Chlordane is used for ants, crickets, webworms, white-fringed beetle, white grubs and wireworms on lawns, ornamentals, strawberries and turf. DDT is used for army worms, chafer, lawn insects, Japanese beetle and white-fringed beetle for lawns, ornamental and noncultivated crops. Dieldrin or heptachlor is also used, but largely on vegetable crop insects, according to a list reported by K. D. Jacob in his article, "Status and Problems of Fertilizer-Pesticide Mixtures," in *Agricultural and Food Chemistry*, volume 2, No. 19.

The effectiveness of these mixtures is not fully proved, but their eager acceptance, particularly through the south, indicates their appeal to farmers and horticulturists. We as nurserymen are particularly interested in their use against the Japanese beetle and the white-fringed beetle. If a proper nematocide mixture were developed, it would be useful in combating or controlling nematode infestations. These mixtures also show promise for treating the soil for the chestnut

weevil, which lives part of its life cycle as a grub in the ground.

A number of problems are not yet completely solved. The effectiveness of some pesticides is not completely proved, and the situation as to their danger to the soil and the crops grown thereon has not been fully determined. Some of these pesticides are poisonous to human beings, and how readily they are absorbed by food plants is not fully determined nor how long is their residual effect.

Another factor to be determined is the interaction of the pesticide and the various fertilizer chemicals themselves, so that the users may know if the chemical will deteriorate in storage or, conversely, become toxic. Still another problem is the difficulty of getting a completely uniform mixture of the pesticide in the fertilizer so that a proper application can be made.

In applying the mixtures in cases where the plants might be sensitive to the pesticide, the broadcast method is preferable over the hill or row method.

While nurserymen are not too directly concerned with the matter of regulation of the products, most of the law agencies take the attitude of neither approving nor disapproving of the sale and use of these materials, waiting to see if there will arise any special problems, hazards or dangers. Similarly, the manufac-

## QUEEN O' the LAKES (Dark Velvety Red)



and 30 other fragrant  
**SUB-ZERO  
HYBRID TEAS**

Large and beautiful as any. Easy to grow; long to live. Bloom more; more constantly. Save replacement expense.

Tree Roses topped with all varieties can survive 15 degrees below zero without protection.

Also 20

Yellow and Orange Climbers

Also Florabundas and Grandifloras. Also many varieties of our new race of everblooming climbers which we call Everblooming Pillars. These bloom the first year like Hybrid Teas and on all stems and canes the year they grow; large Hybrid Tea blooms in great quantity.

These Roses have been honored by some of the leading Distinguished Service Medals.

Write for trade prices to

**BROWNELL ROSES** LITTLE COMPTON, R. I.

Nursery-Grown

### RED OAKS

2 to 7-in. cal.

and

### DOUGLAS FIRS

4 to 20 ft.

Write for prices.

#### THE BUDDIES NURSERY

P. O. Box 14

BIRDSBORO, PA.

### SHEPARD NURSERIES

Growers and Distributors of

#### ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.

60 acres growing. Skaneateles, N. Y.

### LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

#### DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

### FIVE HUNDRED ACRES OF ORNAMENTAL STOCK

Both evergreens and deciduous in liners and finished materials. Fall list now ready.

FAIRVIEW EVERGREEN NURSERIES  
FAIRVIEW, PA.



# profit from the fast-growing market for the **NO-SEE** line!

## **NO-SEE GRASS BARRIER**

4 inches deep

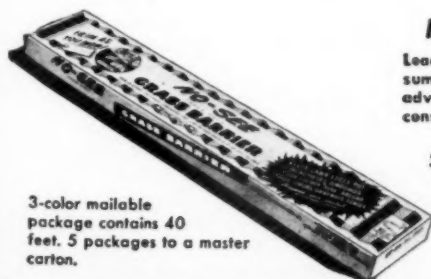
**STOPS GRASS  
HERE!**

**Sells spring, summer and fall!**  
*Repeats and repeats . . . because the average customer buys 8 packages*

Edges lawns permanently. Eliminates grass trimming. Cuts lawn work in half. Stops all kinds of grasses from spreading into cultivated areas. Used around trees, shrubs, flower beds; along fences, hedges and driveways. Gives lawns that well-cared-for look.

No-See Grass Barrier is made of corrugated, galvanized steel that lasts a lifetime. Easy-to-handle sections two feet long by four inches deep lock together to make any length. Bends easily around corners or at right angle.

**Advertised retail—40-ft. package \$4.98**



3-color mailable package contains 40 feet. 5 packages to a master carton.

### **NATIONALLY ADVERTISED**

Leading national home and garden consumer publications will carry large 2-color advertisements all season, guaranteeing consumer demand for NO-SEE products.

**Stocked by leading hardware and garden supply jobbers. Liberal discounts.**

## **NO-SEE ROOT FENCE**

12 inches deep

**STOPS ROOTS  
HERE!**

**Eliminates a problem common to millions of home owners!**

Bars shrub, hedge and vine roots from robbing flower beds of moisture and plant food. Impenetrable steel barrier 12 inches deep allows flowers to flourish close to shrub backgrounds. Makes the difference between straggly, puny flowers and well-nourished, prize-winning blooms!

NO-SEE Root Fence is made of special hot-dipped, galvanized steel, corrugated to permit expansion and contraction as the soil freezes and thaws. Lasts a lifetime. Easy-to-handle sections two feet long by 12 inches deep lock together with special twist clips to make length needed.

**Advertised retail . . . . . box of 25 two-foot sections (50 ft.) \$19.95**  
(Individual section . . . 89c)



### **SELF-SERVE DISPLAY**

Remove top wood member from box and it makes self-serve display. Brilliant 4-color panel tells sales story.

**KEELOR STEEL, INC.**

905 NINTH ST. S. E., MINNEAPOLIS 14, MINN.

## AZALEAS

With 3-in. root ball, heavy, pinched back 3 times. This quality stock should make full, 6 to 8-in. plants by fall, 1955.  
(Ready in May)

|                    | Per 100 |
|--------------------|---------|
| Hino-Crimson ..... | \$25.00 |
| Rosebud .....      | 30.00   |

## LINING-OUT STOCK

|                             | Per 100 | Per 1000 |
|-----------------------------|---------|----------|
| <i>Ilex crenata convexa</i> |         |          |
| 1-yr., 2 1/4-in. pots.....  | \$15.00 | \$135.00 |
| 2-yr., 3-in. pots.....      | 20.00   | 180.00   |
| <i>Taxus cuspidata</i>      |         |          |
| 2-yr., 2 1/4-in. pots.....  | 15.00   | 135.00   |

## ROOTED CUTTINGS

|                             |      |       |
|-----------------------------|------|-------|
| <i>Ilex crenata convexa</i> |      |       |
| 6 to 8 ins.....             | 7.50 | 70.00 |
| 5 to 7 ins.....             | 6.75 | 65.00 |

(Ready for May)

Orders taken up to January 15 on this item.

Only rooted cuttings shipped outside Beetle zone. 25% deposit required; 2% and packing free for cash with order before February 1.

## LEHIGH VALLEY NURSERIES, INC.

1745 Linden St.

BETHLEHEM, PA.

## TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

VERKADE'S NURSERIES

NEW LONDON, CONN.

## QUALITY LINERS

|                                  |         |
|----------------------------------|---------|
| <i>Viburnum Carlesi</i>          | Per 100 |
| 4 to 8 ins., S.....              | \$17.50 |
| Canadian Hemlock                 |         |
| 4 to 8 ins., transplants.....    | 17.50   |
| Colorado Blue Spruce             |         |
| 5 to 10 ins., transplants.....   | 20.00   |
| Pink-flowering Dogwood           |         |
| 6 to 10 ins., 1-yr. grafts.....  | 65.00   |
| 10 to 15 ins., 1-yr. grafts..... | 75.00   |

Send for new Spring List.

POSSUM HOLLOW NURSERIES

6327 Magnolia St.  
PHILADELPHIA 44, PA.

## LILACS ON OWN ROOTS

Leading varieties. All sizes, 3 to 8 ft. 4000, all transplanted.

### RED LAKE CURRANTS

Assortment of Large-size Plants for Landscape Planting

Having sold land, will clear this fall. Inspection and Correspondence Invited.

## SAMUEL FRASER NURSERY

Box 158  
Geneseo, N. Y.

## CLEARANCE SALE CHINESE CHESTNUT TREES

About 8,000 trees. Approximately 50 per cent 3 to 5 ft.; 50 per cent 5 to 8 ft. Offered row run.

40c each in 1,000 lots.

Power dug and bunched F.O.B. MUST MOVE BY MARCH 1, 1955. First come, first served. Ready for shipment after November 10.

BOUNTIFUL RIDGE NURSERIES  
PRINCESS ANNE, MD.

## QUALITY MERCHANDISE AT REASONABLE PRICES

## VANDERBROOK NURSERIES

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

turers are not too keen on making the mixtures because of the hazards to their employees in handling the concentrates used in the mixtures. It seemed to be the conclusion of Mr. Jacobs that in the end the best solution to the problem might be the development of equipment that would apply both a pesticide and fertilizer simultaneously, but not as a mixture. Manufacturers are already working on that sort of equipment. It is quite obvious from the manifest need indicated by the popularity of these mixtures that the demand will force the full development and solution of the problems.

## FTC ORDER STOPS FRAUD

Richard H. Davimos and Casper Pinsker, Jr., partners trading under the firm names of Orchids, Orchid Guild and White House Co., Harrison, N. J., have consented to entry of a federal trade commission order directed against misrepresentation in the sale of orchids and Loamium, a soil conditioner, according to an FTC release.

The consent order is contained in an initial decision by hearing examiner Abner E. Lipscomb. This is not a final decision of the commission, according to the release, but is subject to FTC review.

The order requires the partners to stop misrepresenting the kind of orchid plants they sell, the time in which the plants will bloom and the retail value of the flower. Using such words as "guild" or otherwise representing the business as a non-profit agency is prohibited.

In the sale of Loamium, statements that the soil conditioner will change the soil texture or the composition are prohibited. The partners also agree to stop representing the product as one that will form and stabilize soil aggregate, without describing how much the soil and product must be worked together to obtain the results claimed. Smaller amounts of Loamium than actually required must not be represented as conditioning a given area of soil to a depth. The partners must not represent, contrary to fact, that Loamium contains a soil penetrant.

OPERATIONS of Jackson & Perkins Co., Newark, N. Y., are depicted as an example of American free enterprise in the weekly TV series, "Industry on Parade." Filmed by the National Association of Manufacturers, the motion picture has just been released to TV stations from coast to coast.

## OBITUARY

### Dr. L. H. Bailey

Dr. Liberty Hyde Bailey, dean of American plant scientists and world-famous botanist and horticulturist, died at his home at Ithaca, N. Y., on Christmas eve, at the age of 96. He had written or edited more than 100 books and was the recipient of many honors for his contributions to horticulture, which have been of utmost significance to the field.

Dr. Bailey was born in South Haven, Mich., and reared on a farm. He took a degree in agriculture at Michigan Agricultural College in 1882 and, after a year at Harvard, became professor of horticulture and landscape gardening at Michigan. Three years later he went to Cornell University, where he was professor of horticulture for 15 years. From 1903 to 1913 he was director and dean of the college of agriculture at Cornell. While at Cornell, Dr. Bailey instituted the first farm extension program in the country. Dr. Bailey also held degrees from the University of Wisconsin, Alfred University, the University of Vermont and the University of Puerto Rico.

To collect plant materials and information on plant life, Dr. Bailey traveled extensively in little explored parts of the world. His work took him to South American countries, to China, Japan, Korea and the West Indies. His daughter, Ethel Zoe Bailey, accompanied him on many trips and helped him to compile "Hortus," as well as some other of his books.

Among the honors bestowed upon the distinguished horticulturist were the silver and gold Veitch Memorial medals of the Royal Horticultural Society of Great Britain, the gold medal of the National Institute of Social Sciences, the Grande Medaille of the Societe Nationale d'Acclimatation de France, the honorary award medal of the Garden Club of America, and the George Robert White Medal of honor of the Massachusetts Horticultural Society. He was the first recipient, in 1948, of the Johnny Appleseed memorial medal of the Men's Garden Clubs of America. In 1947 the National Garden Institute announced that the L. H. Bailey medal would be awarded to youthful gardeners through such youth organizations as the 4-H Clubs and boy and girl scout groups and schools.

Dr. Bailey's contributions include "The Standard Encyclopedia of Horti-

## SCHROTH'S NURSERY

# SEEDLINGS

It Pays to Plant  
The Best

Excellent Root  
Systems, Hardy  
ORDER NOW!

Grown at High Altitude — In the Heart of the Original Pine Forests

## WHOLESALE PRICES

|  | Pine Seedlings | Per 100    | Per 1000   |
|--|----------------|------------|------------|
| <b>Scotch Pine, Riga,</b>                            |                |            |            |
| 2-0, 2 to 4 ins.                                     | .....          | \$ 2.00    | \$12.50    |
| 2-0, 4 to 8 ins.                                     | .....          | 4.00       | 25.00      |
| 2-0, 6 to 12 ins.                                    | .....          | 5.00       | 30.00      |
| 3-0, 8 to 16 ins.                                    | .....          | 6.00       | 35.00      |
| <b>American Red Pine,</b>                            |                |            |            |
| 2-0, 2 to 4 ins.                                     | .....          | 2.50       | 15.00      |
| 3-0, 4 to 8 ins.                                     | .....          | 4.00       | 25.00      |
| 3-0, 6 to 9 ins.                                     | .....          | 6.00       | 35.00      |
| <b>Austrian Pine,</b>                                |                |            |            |
| 2-0, 3 to 4 ins.                                     | .....          | 3.00       | 15.00      |
| 2-0, 4 to 8 ins.                                     | .....          | 4.00       | 25.00      |
| 3-0, 8 to 14 ins.                                    | .....          | 6.00       | .....      |
| <b>White Pine,</b>                                   |                |            |            |
| 2-0, 3 to 6 ins.                                     | .....          | 2.50       | 15.00      |
| 3-0, 5 to 9 ins.                                     | .....          | 6.00       | .....      |
| 4-0, 8 to 16 ins.                                    | .....          | 7.00       | 35.00      |
| <b>Ponderosa Pine,</b>                               |                |            |            |
| 2-0, 3 to 5 ins.                                     | .....          | 3.00       | 20.00      |
| <b>Mugho Pine (True Dwarf Tyrolean),</b>             |                |            |            |
| 2-0, well-budded                                     | .....          | 4.00       | 25.00      |
| <b>Norway Spruce,</b>                                |                |            |            |
| 2-0, 2 to 4 ins.                                     | .....          | 2.50       | 15.00      |
| 2-0, 4 to 8 ins.                                     | .....          | 4.00       | 25.00      |
| 4-0, 10 to 16 ins.                                   | .....          | 5.00       | 30.00      |
| <b>White Spruce,</b>                                 |                |            |            |
| 2-0, 3 to 5 ins.                                     | .....          | 3.00       | 20.00      |
| 3-0, 5 to 10 ins.                                    | .....          | 5.00       | 35.00      |
| <b>Red Spruce,</b>                                   |                |            |            |
| 3-0, 3 to 5 ins.                                     | .....          | 2.00       | 15.00      |
| 3-0, 5 to 10 ins.                                    | .....          | 4.00       | 25.00      |
| <b>Black Spruce,</b>                                 |                |            |            |
| 4-0, 6 to 8 ins.                                     | .....          | 3.00       | 20.00      |
| 4-0, 8 to 12 ins.                                    | .....          | 5.00       | 30.00      |
| <b>Colorado Blue Spruce,</b>                         |                |            |            |
| 2-0, 2 to 4 ins.                                     | .....          | 3.00       | 20.00      |
| 2-0, 4 to 6 ins.                                     | .....          | 5.00       | 35.00      |
| 3-0, 5 to 10 ins.                                    | .....          | 7.00       | 50.00      |
| <b>Englemann Spruce.</b> None Available              | .....          | .....      | .....      |
| <b>Balsam Fir,</b>                                   |                |            |            |
| 4-0, 5 to 9 ins.                                     | .....          | 7.00       | 50.00      |
| <b>Douglas Fir.</b> None Available                   | .....          | .....      | .....      |
| <b>European Larch,</b>                               |                |            |            |
| 3-0, 18 to 30 ins.                                   | .....          | 10.00      | 75.00      |
| <b>Carolina Hemlock,</b>                             |                |            |            |
| 2-0, 3 to 6 ins.                                     | .....          | 6.00       | .....      |
| <b>Canadian Hemlock,</b>                             |                |            |            |
| 3-0, 6 to 12 ins.                                    | .....          | 10.00      | 80.00      |
| <b>American Arborvitae,</b>                          |                |            |            |
| 3-0, 6 to 8 ins.                                     | .....          | 2.50       | 15.00      |
| 3-0, 8 to 12 ins.                                    | .....          | 4.00       | 30.00      |
| <b>Chinese Chestnut Seedlings (Blight-resistant)</b> |                |            |            |
| <b>Chinese Chestnut,</b>                             | 10 Lots        | 100 Lots   | 1000 Lots  |
| 2-0, 12 to 24 ins.                                   | .....          | \$0.25 ea. | \$0.20 ea. |
| 3-0, 2 to 4 ft.                                      | .....          | .50 ea.    | .40 ea.    |
|  |                |            | .30 ea.    |

(No Parcel-Post Shipments on 3-0 Chestnut)

5% discount on 25,000 or more of combined species.

(Exclusive of seedlings \$15.00 per 1000 and under.)

We guarantee all stock represented herein as to size and quality, or your money cheerfully refunded.

The name SCHROTH stands for the best. Your order will convince you. Make a Christmas tree planting this season. Scotch is the best bet. Do not delay. Send for complete listing and terms.

All stock offered subject to prior sale.

## SCHROTH'S NURSERY,

## INDIANA, PA.



## GUARANTEED-TO-LIVE TRANSPLANTED EVERGREENS

|   | Per 1000 |
|---|----------|
| American Arborvitae, 4-yr. transplants, (2-2), 4 to 8 in.   | \$65.00  |
| Balsam Fir, 4-yr. transplants, (2-2), 4 to 6 in.            | 85.00    |
| Douglas Fir, 4-yr. transplants, (2-2), 5 to 8 in.           | 85.00    |
| Europenn Larch, 2-yr. transplants, (2-1), 5 to 12 in.       | 50.00    |
| Austrian Pine, 4-yr. transplants, (2-2), 5 to 10 in.        | 85.00    |
| Red Pine, 4-yr. transplants, (2-2), 4 to 10 in.             | 65.00    |
| Red Pine, 3-yr. transplants, (2-1), 3 to 5 in.              | 50.00    |
| Scotch Pine, 4-yr. transplants, (2-2), 5 to 10 in.          | 60.00    |
| Scotch Pine, 3-yr. transplants, (2-1), 3 to 7 in.           | 55.00    |
| Engelmann Blue Spruce, 4-yr. transplants, (2-2), 3 to 8 in. | 70.00    |
| Norway Spruce, 5-yr. transplants, (2-3), 6 to 10 in.        | 70.00    |
| Norway Spruce, 4-yr. transplants, (2-2), 4 to 8 in.         | 60.00    |
| White Spruce, 3-yr. transplants, (2-1), 3 to 5 in.          | 50.00    |

### SEEDLINGS

(Not Guaranteed)

|  |       |
|--|-------|
| Mugho Pine, 3-yr. seedlings, (3-0), 4 to 8 in.           | 25.00 |
| Red Pine, 3-yr. seedlings, (3-0), 5 to 8 in.             | 25.00 |
| Black Hill Spruce, 3-yr. seedlings, (3-0), 4 to 10 in.   | 30.00 |
| Colorado Blue Spruce, 3-yr. seedlings, (3-0), 3 to 5 in. | 35.00 |
| White Spruce, 3-yr. seedlings, (3-0), 4 to 8 in.         | 25.00 |

### TERMS

Cash with order; or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net; no discounts. 250 trees of any one kind and size at the 1000 rate. For less than 250 of one kind, ask for retail price list. No extra charge for boxes or packing.

### OUR GUARANTEE

90 per cent of all transplants sold at regular wholesale prices as quoted in this list are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1955. (Seedlings not guaranteed.)

We believe that we grow and ship more transplanted evergreen trees than any other privately owned nursery in the country. Several other varieties of transplants available. Send for complete list of stock.

**WESTERN MAINE FOREST NURSERY CO.**

DEPT. AN-135

**FRYEBURG, MAINE**



## ROSA MULTIFLORA JAPONICA

(Multiflora Rose)

Hardy, northern-grown seedlings. Upright, thorny type for stock-tight living fences, conservation and budding understock. We select our seeds for trueness to type. The plants are excellently grown.

|   | Per 1000 |
|---|----------|
| 1 to 2-mm. cal., 8 to 10 ins. in height.            | \$10.00  |
| 2 to 3-mm. cal., 10 to 15 ins. in height.           | 12.50    |
| 3 to 4-mm. cal., 12 to 15 ins. in height.           | 15.00    |
| 4 to 6-mm. cal., 15 to 24 ins. in height.           | 25.00    |
| 6 to 12-mm. cal., 18 to 36 ins. in height.          | 35.00    |
| Conservation grade, 3 to 12-mm. cal., 12 to 24 ins. | 22.50    |

Special prices in large quantities. Sample for \$2.00. Also sold row run by the pound. You do the counting, at very attractive prices. No charge for packing. Ask for quantity prices.



### BROOKVILLE NURSERIES

GLEN HEAD, N. Y.

## PINE SPRUCE-FIR SEEDLINGS and TRANSPLANTS

Write for New Spring List.  
Prices as low as \$12.50 per 1000

**ECCLES NURSERIES**  
RIMERSBURG, PA.

## ILEX CRENATA

2-yr., S., 4 to 6 in. \$50.00  
Send for List.

**BROOKFIELD GARDENS**  
Rt. 46 DELAWARE, N. J.



## PRINCETON NURSERIES

A very complete line of  
Quality Ornamental Stock.

Come to see us.

Send us your Want List.

Write for catalog.

**PRINCETON NURSERIES**

Ph. Princeton 1-1776 PRINCETON, N. J.

## Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

**W. - T. Smith Corporation.**  
Telephone 2689 GENEVA, N. Y.

culture," "Manual of Cultivated Plants," "Nursery Manual" and "Cultivated Conifers in North America." The Bailey Hortorium, which constitutes one of the world's finest collections of plant materials, is among the distinguished scientist's major contributions to the field of horticulture.

### George A. Chandler

George A. Chandler, vice-president of the Chandler Landscape & Floral Co., Kansas City, Mo., died of a heart attack at his home, December 21. He was 57 years old.

Mr. Chandler was in charge of landscape contracting and architectural design for his company. He was a graduate of the University of Illinois. He was a member of Sigma Chi fraternity at the University of Kansas, which he had attended in 1917; a member of the Scarab fraternity, an honorary architectural organization at the University of Illinois, and the Illinois Landscape Architects Society.

His wife, Margaret, died in 1941. Survivors include his daughter, Mrs. Jerome Stroot; his father, Clarence A. Chandler, president of the company; his brother, Edwin R. Chandler, secretary-treasurer and in charge of the florists' operations of the company, and a sister, Mrs. Charles E. Cayot.

### Paul C. Pritchard

Paul C. Pritchard, nurseryman of Ottawa, Kan., died suddenly December 14, 1954, as a result of a heart attack at his home.

For a number of years, he was employed by the Willis Nursery Co., Ottawa, first as a grower and later as a wholesale salesman. After leaving the Willis nursery, he was employed in the same capacity by the Shenandoah Nurseries, Shenandoah, Ia. Later he started his own nursery, specializing in lining-out stock.

Mr. Pritchard was born in December, 1893, in Deepwater, Mo. Besides his widow, he is survived by three daughters, three sons, nine grandchildren, four sisters and four brothers.

### Peter Riedel

Peter Riedel, Santa Barbara, Calif., died December 5 in a local hospital after an illness of several weeks. His full name was Johannes Petrus Bruinwold Riedel.

Mr. Riedel was prominent in various phases of horticulture at Santa Barbara since his arrival there in 1905. At the time of his last illness he had all but completed the manu-

# SHADE'S Central Pennsylvania Grown ROSES

2 years old, field-grown plants

## Fall, 1954 — WHOLESALE PRICE LIST — Spring, 1955

Place Your Order Now for Spring Delivery

### PRICES ON ALL STANDARD ROSES

No. 1...50c EACH No. 1 1/2...40c EACH

#### TWO-TONE

COUNTESS VANDAL, Pink, copper, gold and salmon.  
TEXAS CENTENNIAL, Vermilion-red and gold.

#### RED

CRIMSON GLORY, Deep velvety and crimson.

AMI QUINARD, Velvety crimson-maroon.

POINSETTIA, Bright scarlet.

MCGREY'S SCARLET, Scarlet-red.

#### YELLOW

ECLIPSE, Longbud and rich gold.  
SOUR THERESA, Double and rich yellow.

#### PINK

MME. COCHET-COCHET, Coppery-pink and reflected gold.

BETTY UPRICHARD, Salmon-pink.

EDITOR McFARLAND, Brilliant pink.

#### WHITE

K. A. VICTORIA, Snowy-white and double.

#### FLORIBUNDA

POULSEN BEDDER, Clear, rich pink.

RED RIFLES, Carmine-red.

#### CLIMBING ROSES

BLAZE, Bright red.

DOUBLOONS, Clear golden-yellow.

CITY OF YORK, Creamy-white.

### BROWNELL SUB-ZERO HYBRID TEA

A new race from hardier species. Wichuriana hybrids, that can bloom all summer along with the more tender hybrid teas. The originator reports flowers of equal merit in size, form, fragrance and color and plants many times longer lived even after sub-zero winters.

|                                    | Each   | Each   | per    | per |
|------------------------------------|--------|--------|--------|-----|
|                                    | 10     | 100    |        |     |
| CURLEY PINK                        |        |        |        |     |
| Pat. No. 842—Retails \$1.75 each   |        |        |        |     |
| Many large two-tone pink blooms.   |        |        |        |     |
| No. 1 .....                        | \$1.00 | \$0.90 | \$0.85 |     |
| No. 1 1/2 .....                    | .80    | .72    | .68    |     |
| PINK PRINCESS                      |        |        |        |     |
| Pat. No. 459—Retails \$1.75 each   |        |        |        |     |
| Bud red, flowers deep pink.        |        |        |        |     |
| No. 1 .....                        | 1.00   | .90    | .85    |     |
| No. 1 1/2 .....                    | .80    | .72    | .68    |     |
| ORANGE RUFFLES                     |        |        |        |     |
| Pat. No. 1124—Retails \$1.75 each  |        |        |        |     |
| Ruffled orange to saffron-yellow.  |        |        |        |     |
| No. 1 .....                        | 1.00   | .90    | .85    |     |
| No. 1 1/2 .....                    | .80    | .72    | .68    |     |
| RED DUCHESSE                       |        |        |        |     |
| Pat. No. 846—Retails \$1.75 each   |        |        |        |     |
| Hardy, rose-red flowers, fragrant. |        |        |        |     |
| No. 1 .....                        | 1.00   | .90    | .85    |     |
| No. 1 1/2 .....                    | .80    | .72    | .68    |     |

#### CURLEY PINK

Pat. No. 842—Retails \$1.75 each  
Many large two-tone pink blooms.

No. 1 .....

No. 1 1/2 .....

PINK PRINCESS

Pat. No. 459—Retails \$1.75 each

Bud red, flowers deep pink.

No. 1 .....

No. 1 1/2 .....

ORANGE RUFFLES

Pat. No. 1124—Retails \$1.75 each

Ruffled orange to saffron-yellow.

No. 1 .....

No. 1 1/2 .....

RED DUCHESSE

Pat. No. 846—Retails \$1.75 each

Hardy, rose-red flowers, fragrant.

No. 1 .....

No. 1 1/2 .....

### PATENTED ROSES

We offer these roses under license from patent owner. It is understood and agreed that they are for sale at retail only, at or above prices specified. 10 to 20 of one variety at 10 rate; 250 and up of one variety at 1000 rate. Prices are net.

|                                   | Each   | Each   | Each    |
|-----------------------------------|--------|--------|---------|
|                                   | per    | per    | per     |
|                                   | 10     | 100    | 1000    |
| BLANCHE MALLERIN                  |        |        |         |
| Pat. No. 594—Retails \$2.00 each  |        |        |         |
| Pure white, fragrant.             |        |        |         |
| No. 1 .....                       | \$1.25 | \$1.10 | \$1.00  |
| No. 1 1/2 .....                   | .88    | .80    |         |
| DR. DEBAT                         |        |        |         |
| Pat. No. 961—Retails \$2.00 each  |        |        |         |
| Medium pink.                      |        |        |         |
| No. 1 .....                       | 1.25   | 1.10   | 1.00    |
| No. 1 1/2 .....                   | .88    | .80    |         |
| GOLDEN ANVIL                      |        |        |         |
| Pat. No. 806—Retails \$1.75 each  |        |        |         |
| Old gold color, flushed apricot.  |        |        |         |
| No. 1 .....                       | 1.15   | 1.00   | .87 1/2 |
| No. 1 1/2 .....                   | .80    | .70    |         |
| GOOD NEWS                         |        |        |         |
| Pat. No. 426—Retails \$1.75 each  |        |        |         |
| Deep copper-pink to shell-pink.   |        |        |         |
| No. 1 .....                       | 1.15   | 1.00   | .87 1/2 |
| No. 1 1/2 .....                   | .80    | .70    |         |
| PEACE                             |        |        |         |
| Pat. No. 591—Retails \$2.50 each  |        |        |         |
| Golden-yellow etched with pink.   |        |        |         |
| No. 1 .....                       | 1.60   | 1.40   | 1.25    |
| No. 1 1/2 .....                   | 1.12   | 1.00   |         |
| PENNSYLVANIA                      |        |        |         |
| Pat. 836—Retails \$2.00 each      |        |        |         |
| Soft apricot—orange—pink.         |        |        |         |
| No. 1 .....                       | 1.25   | 1.10   | 1.00    |
| No. 1 1/2 .....                   | .88    | .80    |         |
| SUZON LOTTE                       |        |        |         |
| Pat. No. 934—Retails \$2.50 each  |        |        |         |
| Pearly-pink and white.            |        |        |         |
| No. 1 .....                       | 1.60   | 1.40   | 1.25    |
| No. 1 1/2 .....                   | 1.12   | 1.00   |         |
| COCORICO—Floribunda               |        |        |         |
| Pat. No. 1193—Retails \$2.00 each |        |        |         |
| Flashing scarlet.                 |        |        |         |
| No. 1 .....                       | 1.25   | 1.10   | 1.00    |
| No. 1 1/2 .....                   | .88    | .80    |         |
| IRENE OF DENMARK—Floribunda       |        |        |         |
| Pat. No. 839—Retails \$2.00 each  |        |        |         |
| White.                            |        |        |         |
| No. 1 .....                       | 1.25   | 1.10   | 1.00    |
| No. 1 1/2 .....                   | .88    | .80    |         |
| MRS. INGE POULSEN—Floribunda      |        |        |         |
| Pat. No. 1050—Retails \$1.50 each |        |        |         |
| Pale amber and pink.              |        |        |         |
| No. 1 .....                       | 1.00   | .90    | .75     |
| No. 1 1/2 .....                   | .72    | .60    |         |

#### BLANCHE MALLERIN

Pat. No. 594—Retails \$2.00 each

Pure white, fragrant.

No. 1 .....

No. 1 1/2 .....

#### DR. DEBAT

Pat. No. 961—Retails \$2.00 each

Medium pink.

No. 1 .....

No. 1 1/2 .....

#### GOLDEN ANVIL

Pat. No. 806—Retails \$1.75 each

Old gold color, flushed apricot.

No. 1 .....

No. 1 1/2 .....

#### GOOD NEWS

Pat. No. 426—Retails \$1.75 each

Deep copper-pink to shell-pink.

No. 1 .....

No. 1 1/2 .....

#### PEACE

Pat. No. 591—Retails \$2.50 each

Golden-yellow etched with pink.

No. 1 .....

No. 1 1/2 .....

#### PENNSYLVANIA

Pat. 836—Retails \$2.00 each

Soft apricot—orange—pink.

No. 1 .....

No. 1 1/2 .....

#### SUZON LOTTE

Pat. No. 934—Retails \$2.50 each

Pearly-pink and white.

No. 1 .....

No. 1 1/2 .....

#### COCORICO—Floribunda

Pat. No. 1193—Retails \$2.00 each

Flashing scarlet.

No. 1 .....

No. 1 1/2 .....

#### IRENE OF DENMARK—Floribunda

Pat. No. 839—Retails \$2.00 each

White.

No. 1 .....

No. 1 1/2 .....

#### MRS. INGE POULSEN—Floribunda

Pat. No. 1050—Retails \$1.50 each

Pale amber and pink.

No. 1 .....

No. 1 1/2 .....

### WRAPPED ROSES

15c each above cost of individual rose. Attractively packed in distinctive yellow, red and blue waterproof bags, tops paraffin waxed. Beautiful full-color picture label and planting suggestions appear on each bag.

### EVERGREENS

Landscape Material  
Twice Transplanted—Regularly Sheared  
No Boxing or Shipping  
Terms: Cash, B&B at the Nursery

|                                      | Each   |
|--------------------------------------|--------|
| 1500 Juniperus Excelsa Stricta       |        |
| 15 to 18 ins.                        | \$1.50 |
| 4000 Juniperus Glauca Hetzi          |        |
| 15 to 18 ins.                        | 2.25   |
| 400 Retinospora Plumosa Aurea        |        |
| 18 to 24 ins.                        | 2.75   |
| 350 Retinospora Squarrosa Veitchii   |        |
| 18 to 24 ins.                        | 2.50   |
| 600 Taxus Cupidata                   |        |
| 18 to 25 ins.                        | 3.50   |
| 700 Taxus Cusp. Intermedia           |        |
| 15 to 18 ins.                        | 3.50   |
| 1800 Taxus Media Hatfieldi           |        |
| 24 to 30 ins.                        | 4.00   |
| 1200 Taxus Media Hicksi              |        |
| 18 to 24 ins.                        | 3.50   |
| 650 Thuja Occidentalis Elegansissima |        |
| 24 to 30 ins.                        | 2.50   |
| 700 Thuja Occidentalis Globosa       |        |
| 15 to 18 ins.                        | 2.75   |
| 500 Thuja Occidentalis Pyramidalis   |        |
| 36 to 38 ins.                        | 3.00   |

### YOUNG SALABLE EVERGREENS

Grown three years in 15-inch rows planted 15 inches apart, under irrigation. Splendid young salable evergreens for the cash-and-carry trade of garden shops, roadside markets and nurseries.

|                                       |      |
|---------------------------------------|------|
| 500 Thuja Occidentalis Pyramidalis    |      |
| 24 to 30 ins.                         | 1.50 |
| 1500 Thuja Occidentalis Pyramidalis   |      |
| 30 to 36 ins.                         | 2.50 |
| 2500 Juniperus Chinensis Pfitzeriana  |      |
| 12 to 15 ins.                         | 1.25 |
| 1500 Juniperus Excelsa Stricta        |      |
| 12 to 15 ins.                         | 1.25 |
| 3000 Juniperus Glauca Hetzi           |      |
| 12 to 15 ins.                         | 1.25 |
| 6000 Taxus Cupidata                   |      |
| 8 to 10 ins.                          | 1.25 |
| 5000 Taxus Cusp. Intermedia           |      |
| 8 to 10 ins.                          | 1.25 |
| 4000 Taxus Media Hicksi               |      |
| 10 to 12 ins.                         | 1.00 |
| 2500 Thuja Occidentalis Elegansissima |      |
| 18 to 20 ins.                         | 1.50 |
| 1500 Thuja Occidentalis Globosa       |      |
| 10 to 12 ins.                         | 1.00 |
| 1500 Thuja Occidentalis Wareana       |      |
| 18 to 20 ins.                         | 1.50 |

SHIPPING—We request customers to give definite shipping instructions regarding manner in which they wish goods shipped. In the absence of special instructions we use our best judgment, but without assuming responsibility. All shipments travel at risk and expense of purchaser.

Terms and Conditions of Sale: Cash with order; packing at cost. Please order in multiples of 10 plants only.

## SHADE'S NURSERY

4907 Orchard St.

Phone—Harrisburg 5-5417

HARRISBURG, PA.

5 Miles East of Harrisburg on U. S. Route 22

Member Pennsylvania Nurserymen's Association — American Rose Society

script of a monumental work entitled "Plants for Extra-Tropical Regions: A catalog of the plants that are, have been or might be grown where the orange and avocado thrive, including brief mention of others every plantsman should know." It was a project in which he had been interested ever since he became associated with the late Dr. Francesco Franceschi in 1905 in the Southern California Acclimatization Association, incorporated to introduce exotic plants.

Mr. Riedel was born in Holland May 17, 1873, the son of a minister in the Dutch Reformed Church. He graduated from the agricultural and horticultural college at Wageningen before emigrating to the United States in 1893.

January 19, 1897, at Oro Grande, he married Miss Atje Koopmans, who survives him. They had three children, John, a civil engineer now in Tokyo, Japan; Mamie Riedel Hester, who died in 1941, and Nellie, wife of Dr. Charles R. Preuss, of

## FOR 52 YEARS

Our business has been growing

Rhododendrons  
Azaleas  
Perennials, Roses  
All Nursery Items

BOBBINK NURSERIES, INC.  
586 Paterson Ave.  
E. RUTHERFORD, N. J.

## LINING-OUT STOCK

For Spring, 1955, Delivery

This stock is surplus over our own lining-out requirements. You will find these plants well-established, ready to put to field in the spring, 1955. Samples sent on request.

| ACER (Maple)  | Each | Per 100 |
|---|------|---------|
| 250 <i>Acer palmatum atropurpureum dissectum</i> , own-root, 2 1/2-in. pots |      | \$0.45  |
| BERBERIS (Barberry)   |      |         |
| 225 <i>Berberis julianae</i> , 2 1/2-in. pots                               | .20  |         |
| TAXUS (Yew)   |      |         |
| 2000 <i>Taxus cuspidata</i> , 2 1/4-in. pots                                | .17  |         |
| THUJA (Arborvitae)  |      |         |
| 3500 <i>Thuja occidentalis compacta erecta</i> , 2 1/4-in. pots             | .17  |         |
| VIBURNUM  |      |         |
| 800 <i>Viburnum carlesi</i> , 2 1/4-in. pots, own-root                      | .30  |         |

Prices are F.O.B. Westminster, Md.; packing additional at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25% of amount is sent with order.

**THE WESTMINSTER NURSERIES**  
WESTMINSTER, MD.

## PACHYSANDRA

The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates.

|  | Per 100<br>Prepaid | Per 1000<br>F.O.B. here | Per 1000 for<br>10,000 or more<br>in same shipment |
|--|--------------------|-------------------------|--|
| Strong, well-rooted, 1-yr. plants; propagated in soil frames | \$4.25             | \$35.00                 | \$32.50  |
| 2 to 3-yr., field plants                                     | 6.00               | 50.00                   | 45.00  |

All available for prompt shipment March through November. Shipments anywhere, including Canada. Good packing free. Order now for spring.

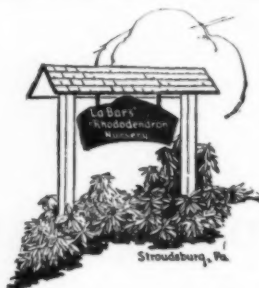
**PEEKSKILL NURSERY** Phone: Lakeland 8-5595 **SHRUB OAK, N. Y.**

## EVERGREENS

300 acres of choice Evergreens  
ready for immediate resale

Write for list.

**GARDNER'S NURSERIES, Inc.**  
ROCKY HILL, CONN.



## HEMLOCK

Rhododendron—Kalmia

Azalea

**CURTIS NURSERIES**

CALLICOON, N. Y.

## DEL-MAR-VA NURSERIES

Growers of Quality  
Taxus, Ilex and other Ornamentals.

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## HOLLIES

### Special Announcement

Wilmat Holly Co. is prepared to propagate, on contract for spring delivery, nearly all varieties of red-berried evergreen hollies.

Firm orders accompanied by cash will be booked at new low prices. Full replacement guarantee will be given bona fide nurserymen and florists. Write for list of available stock.

**WILMAT HOLLY CO.**  
Box 304, NARBERTH, PA.

## PINE and SPRUCE

Seedlings and transplants for spring.  
List available late fall.

**SAM DIBLE NURSERY**

R. F. D. 3

SHELOCTA, PA.

Santa Barbara. A brother and a sister in Holland survive.

Upon arriving in Santa Barbara, Mr. Riedel became associated with the Montecito Nursery, taking charge of the landscaping of many fine estates in the area. From 1935 until 1942 he conducted special high school, college and evening classes in horticulture.

He retired for a time, devoting most of his time to his book and serving as a consultant to the city park department. After the war he resumed his adult education classes.

**Edward J. Berneche**

Edward J. Berneche, peony grower and nurseryman, died December 12, at Portland, Ore. He would have been 91 years old January 7.

For many years Mr. and Mrs. Berneche operated one of the country's largest peony farms just west of Portland, Ore. When their farm was bisected by a state highway, they gradually reduced their plantings, finally discontinuing operations. Recently the couple celebrated their 50th wedding anniversary.

Mr. Berneche is survived by his widow, Mary May; two daughters, Mrs. Emelia M. Laseter and Mrs. Eva L. Richards, and a son, Rudolph A. Berneche.

**Martha H. Tures**

Mrs. Martha H. Tures, 78, Des Plaines, Ill., widow of Matt Tures, died December 22.

She leaves three daughters, Mrs. Lucy Blameuser, Mrs. Helen Ahrens and Sister Mary Hilary, and five sons, Nicholas, Andrew, John, Raymond and Hubert. Several of the sons have continued the father's business as Tures Nursery since his death.

## AMERICAN AND BELGIAN NURSERIES COMPARED

One of the biggest differences between American nurseries and nurseries in his native Belgium, according to Jacques Vermeyen, who came to America to work with the Appalachian Nurseries, Waynesboro, Pa., is that there is much more diversification of production at each nursery in Belgium.

Although the propagators in the section around Ghent in western Belgium concentrate on flowers, Mr. Vermeyen said, the visitor will usually find fruit trees, rock plants, evergreens, flowers, fruits and vegetables at each nursery. A typical order, he said, might include 12 rose plants, three kinds of peach trees, two for-



# FIELD-GROWN LINING-OUT STOCK

All stock grown in open field beds.

|  | Each<br>per<br>100 | Each<br>per<br>1000 |   | Each<br>per<br>100 | Each<br>per<br>1000 |   | Each<br>per<br>100 | Each<br>per<br>1000 |
|--|--------------------|---------------------|---|--------------------|---------------------|---|--------------------|---------------------|
| <b>Azalea Ghent (pontica).</b>         |                    |                     | <b>Juniperus com. hibernica fastigata</b> |                    |                     | <b>Rhododendron hybrid.</b>             |                    |                     |
| 3 to 5 ins., 3-yr., T.....             | \$0.28             | \$0.25              | (Compact Irish Juniper).                  | \$0.42             | \$0.40              | 2-yr., T., field bed.....               | \$0.35             | \$0.32              |
| 5 to 8 ins., 3-yr., T.....             | .35                | .32                 | 10 to 12 ins., 2-yr., T.....              | .48                | .45                 | 3 to 5 ins., T.....                     | .45                | .42                 |
| 8 to 10 ins., 4-yr., T.....            | .55                | .50                 | 12 to 15 ins., 3-yr., T.....              | .55                | .50                 | 5 to 8 ins., T.....                     | .55                | .52                 |
| <b>Azalea mollis (Chinese Azalea).</b> |                    |                     | <b>Juniperus glauca heisi</b>             |                    |                     | 8 to 10 ins., T.....                    | .85                | .82                 |
| 6 to 8 ins., 2-yr., T.....             | .25                | .22                 | 5 to 10 ins., 2-yr., T.....               | .35                | .32                 | <b>Taxus cuspidata (Spreading Yew).</b> |                    |                     |
| 8 to 10 ins., 3-yr., T.....            | .45                | .42                 | 10 to 12 ins., 3-yr., T.....              | .45                | .42                 | 6 to 8 ins., 1-yr., T.....              | .25                | .22                 |
| 10 to 12 ins., 4-yr., T.....           | .65                | .60                 | 12 to 15 ins., 3-yr., T.....              | .55                | .50                 | 8 to 10 ins., 2-yr., T.....             | .35                | .32                 |
| 12 to 15 ins., 4-yr., T.....           | 1.35               | 1.30                | 15 to 18 ins., 4-yr., T.....              | .70                | .65                 | 10 to 12 ins., 3-yr., T.....            | .45                | .42                 |
| <b>Azalea schlippenbachii.</b>         |                    |                     | <b>Juniperus pfitzeriana aurea</b>        |                    |                     | <b>Taxus media hicksii</b>              |                    |                     |
| 2-yr., field bed, T.....               | .28                | .25                 | 6 to 8 ins., 1-yr., T.....                | .30                | .28                 | 6 to 8 ins., 1-yr., T.....              | .28                | .26                 |
| <b>Buxus sempervirens welleri</b>      |                    |                     |   |                    |                     | 8 to 10 ins., 2-yr., T.....             | .38                | .36                 |
| 4 to 6 ins., 2-yr., T.....             | .28                | .25                 | <b>Juniperus pfitzeriana compacta</b>     |                    |                     | <b>Thuja occidentalis</b>               |                    |                     |
| 6 to 8 ins., 3-yr., T.....             | .35                | .32                 | (Nelson variety). Com-Ea. Ea.             |                    |                     | 12 to 15 ins., 3-yr., T.....            | .38                | .35                 |
| 8 to 10 ins., 4-yr., T.....            | .45                | .42                 | pacitly growing, gray-per per             |                    |                     | 15 to 18 ins., 4-yr., T.....            | .45                | .43                 |
| <b>Chamaecyparis plumosa aurea</b>     |                    |                     | blue, 100 1000                            |                    |                     | 18 to 24 ins., 5-yr., T.....            | .55                | .50                 |
| 6 to 8 ins., 2-yr., T.....             | .35                | .32                 | 3 to 5 ins., 1-yr., T.....                | \$0.25             | \$0.22              | <b>Thuja occ. douglasii aurea</b>       |                    |                     |
| 8 to 10 ins., 3-yr., T.....            | .45                | .40                 | 6 to 8 ins., 1-yr., T.....                | .35                | .32                 | 6 to 8 ins., 2-yr., T.....              | .25                | .22                 |
| <b>Euonymus fortunei carrierei.</b>    |                    |                     | 8 to 10 ins., 2-yr., T.....               | .45                | .42                 | 8 to 10 ins., 3-yr., T.....             | .45                | .42                 |
| 6 to 8 ins., 1-yr., T.....             | .22                | .20                 | <b>Juniperus squamata meyeri</b>          |                    |                     | <b>Thuja occ. elegantissima lutea</b>   |                    |                     |
| 8 to 10 ins., 2-yr., T.....            | .30                | .28                 | 6 to 8 ins., 2-yr., T.....                | .35                | .32                 | 6 to 8 ins., 2-yr., T.....              | .35                | .32                 |
| 10 to 15 ins., 3-yr., T.....           | .35                | .32                 | 8 to 10 ins., 2-yr., T.....               | .45                | .42                 | 8 to 10 ins., 3-yr., T.....             | .40                | .38                 |
| <b>Euonymus fortunei erectus</b>       |                    |                     | <b>Juniperus stricta</b>                  |                    |                     | 10 to 12 ins., 3-yr., T.....            | .45                | .42                 |
| 10 to 12 ins., 2-yr., T.....           | .28                | .25                 | 6 to 8 ins., 1-yr., T.....                | .35                | .32                 | <b>Thuja occ. pyramidalis</b>           |                    |                     |
| 12 to 15 ins., 3-yr., T.....           | .35                | .32                 | <b>Koeleuteria paniculata</b>             |                    |                     | 12 to 15 ins., 2-yr., T.....            | .55                | .52                 |
| 15 to 18 ins., 4-yr., T.....           | .45                | .42                 | 8 to 10 ins., 3-yr., T.....               | .22                | .20                 | <b>Taxus canadensis (Hemlock).</b>      |                    |                     |
| <b>Euonymus radicans coloratus.</b>    |                    |                     | 12 to 15 ins., 3-yr., T.....              | .30                | .28                 | 8 to 10 ins., 4-yr., T.....             | .35                | .32                 |
| 8 to 10 ins., 2-yr., T.....            | .22                | .20                 | <b>Larix europaea (European Larch)</b>    |                    |                     | 10 to 12 ins., 4-yr., T.....            | .45                | .40                 |
| 10 to 15 ins., 2-yr., T.....           | .28                | .26                 | 10 to 18 ins., 3-yr., T.....              | .18                | .15                 | <b>Viburnum opulus nana</b>             |                    |                     |
| <b>Euonymus radicans vegetus</b>       |                    |                     | 18 to 24 ins., 4-yr., T.....              | .25                | .20                 | 1-yr., field bed, T.....                | .18                | .16                 |
| 8 to 10 ins., 2-yr., T.....            | .25                | .23                 | <b>Leucothoe cuneata</b>                  |                    |                     | 3-yr., field bed, T.....                | .35                | .32                 |
| 10 to 12 ins., 3-yr., T.....           | .35                | .32                 | 6 to 8 ins., 2-yr., T.....                | .28                | .25                 |   |                    |                     |
| 12 to 15 ins., 4-yr., T.....           | .45                | .40                 | 8 to 10 ins., 3-yr., T.....               | .35                | .32                 |   |                    |                     |
| <b>Hex crenata (Japanese Holly).</b>   |                    |                     | 10 to 12 ins., 3-yr., T.....              | .45                | .42                 |   |                    |                     |
| 6 to 8 ins., 1-yr., T.....             | .25                | .23                 | <b>Mahonia aquifolium (Oregon</b>         |                    |                     |   |                    |                     |
| 8 to 10 ins., 2-yr., T.....            | .35                | .32                 | <b>Grape-Holly)</b>                       |                    |                     |   |                    |                     |
| <b>Hex crenata convexa (bullata)</b>   |                    |                     | 3 to 5 ins., 3-yr., T.....                | .18                | .16                 |   |                    |                     |
| 6 to 8 ins., 1-yr., T.....             | .25                | .23                 | 5 to 8 ins., 3-yr., T.....                | .25                | .22                 |   |                    |                     |
| 8 to 10 ins., 3-yr., T.....            | .45                | .40                 | 8 to 10 ins., 3-yr., T.....               | .30                | .28                 |   |                    |                     |
| 10 to 12 ins., 3-yr., T.....           | .70                | .65                 | <b>Picea excelsa (Norway Spruce).</b>     |                    |                     |   |                    |                     |
| <b>Hex crenata helleri</b>             |                    |                     | 10 to 12 ins., 4-yr., T.....              | .20                | .18                 |   |                    |                     |
| 1-yr., field bed, T.....               | .18                | .16                 | 12 to 15 ins., 4-yr., T.....              | .25                | .22                 |   |                    |                     |
| <b>Hex rotundifolia (Roundleaf</b>     |                    |                     | <b>Picea pungens glauca</b>               |                    |                     |   |                    |                     |
| <b>Japanese Holly).</b>                |                    |                     | 4 to 6 ins., 3-yr., T.....                | .20                | .18                 |   |                    |                     |
| 6 to 8 ins., 1-yr., T.....             | .30                | .28                 | 6 to 8 ins., 4-yr., T.....                | .28                | .26                 |   |                    |                     |
| 8 to 10 ins., 2-yr., T.....            | .45                | .40                 | <b>Pieris floribunda</b>                  |                    |                     |   |                    |                     |
| 10 to 12 ins., 3-yr., T.....           | .55                | .50                 | 6 to 8 ins., 3-yr., T.....                | .35                | .32                 |   |                    |                     |
| <b>Juniper, Andorra (Purple</b>        |                    |                     | <b>Pieris japonica</b>                    |                    |                     |   |                    |                     |
| <b>Andorra Juniper).</b>               |                    |                     | 6 to 8 ins., 3-yr., T.....                | .32                | .30                 |   |                    |                     |
| 6 to 8 ins., 1-yr., T.....             | .28                | .25                 | 8 to 10 ins., 3-yr., T.....               | .45                | .42                 |   |                    |                     |
| 8 to 10 ins., 2-yr., T.....            | .35                | .32                 | 10 to 12 ins., 4-yr., T.....              | .65                | .60                 |   |                    |                     |
| 10 to 12 ins., 3-yr., T.....           | .45                | .42                 | 12 to 15 ins., 4-yr., T.....              | .90                | .85                 |   |                    |                     |
| <b>Juniperus communis hibernica</b>    |                    |                     | <b>Pinus mugo (Dwarf Mugo Pine).</b>      |                    |                     |   |                    |                     |
| <b>(Irish Juniper).</b>                |                    |                     | 4 to 6 ins., 3-yr., T.....                | .18                | .16                 |   |                    |                     |
| 10 to 12 ins., 2-yr., T.....           | .40                | .38                 | 6 to 8 ins., 4-yr., T.....                | .22                | .20                 |   |                    |                     |
| 12 to 15 ins., 3-yr., T.....           | .45                | .42                 | <b>Pyracantha coccinea lalandi</b>        |                    |                     |   |                    |                     |
| cut back 1-yr., T.....                 | .45                | .42                 | 8 to 12 ins., 3-yr., T.....               | .32                | .30                 |   |                    |                     |
| 15 to 18 ins., 3-yr., T.....           | .55                | .50                 |   |                    |                     |   |                    |                     |

Write for our complete price list or refer to our full-page ad in the

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sythias, five rock cotoneasters and several other plants. This sort of order requires a wide knowledge of plants on the part of the nurseryman.

Mr. Vermeyen, who has the equivalent of four years agricultural college plus two years as a technician for the ministry of agriculture, was brought to this country by W. J. Billerbeck, of Appalachian Nurseries, to work as a propagator.

"It has certainly been interesting to exchange viewpoints with him," Mr. Billerbeck commented, "and to see the differences in planting techniques between the United States and Europe. The Belgian people have a fine reputation in this work."

Mr. Vermeyen, who worked at the nursery of his father, at Anderlues, Belgium, said that most nurserymen in that nation do much of their own growing. "They begin to propagate

under glass and grow many years before selling," he remarked.

He said that most seeds are sown in March and in April to be transplanted into flats after May. Cuttings of vines are made in February. Cuttings of Ligustrum ovalifolium are made during the bad days of the winter.

During the summer, the nurseries use grafts in escutcheon on Malus vulgaris, Cydonia vulgaris and prunus. They have found that the use of a simple split graft on these trees in March or September results in a tree ready to sell at an earlier date.

Mr. Vermeyen and his wife have twin children, Phillippe and Beatrice, about two and one-half years old. The couple is at present trying to master the English language.

A NURSERY specializing in ornamental evergreens is being started by Norman J. Dahn, Detroit, Mich.

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|                                      |        |
|--------------------------------------|--------|
| <b>Tsuga canadensis (Hemlock).</b>   |        |
| 3 to 4 ft.....                       | \$2.50 |
| 4 to 5 ft.....                       | 3.25   |
| 5 to 6 ft.....                       | 3.75   |
| <b>Taxus capitata (Upright Yew).</b> |        |
| 3 to 4 ft.....                       | 8.00   |
| 4 to 5 ft.....                       | 9.50   |
| <b>Thuja occidentalis</b>            |        |
| (American Arborvitae).               |        |
| 5 to 6 ft.....                       | 3.60   |
| 6 to 7 ft.....                       | 3.75   |
| 7 to 8 ft.....                       | 4.50   |
| 8 to 10 ft.....                      | 6.25   |

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October 1, 1954, issue.

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6 to 8 ins., 2-yr. T., \$10.00 per 100

## Symplocos paniculata

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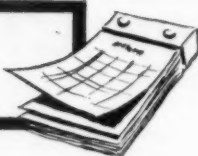
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# Coming Events



## MEETING CALENDAR

January 17 and 18, New York State Arborists' Association and New York arborists' school, Hotel Onondaga, Syracuse, N. Y.

January 17 and 18, Washington State Nurserymen's Association and chapter 28 of the American Association of Nurserymen, Winthrop hotel, Tacoma, Wash. (See December 1 issue.)

January 17 to 19, short course for arborists, landscape gardeners and nurserymen, sponsored by the department of horticulture, Ohio State University, Neil House, Columbus, O.

January 18, Massachusetts Nurserymen's Association, Hotel Kenmore, Boston, Mass.

January 18 and 19, 2-day school for nurserymen, Knapp Hall lounge, Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

January 18 to 20, Indiana Association of Nurserymen, Purdue University, Lafayette, Ind. (See December 15 issue.)

January 19 and 20, Oklahoma State Nurserymen's Association, Biltmore hotel, Oklahoma City, Okla. (See January 1 issue.)

January 19 to 21, Ohio Nurserymen's Association, Neil House, Columbus, O.

January 20 and 21, Canadian Association of Nurserymen, Sheraton Brock hotel, Niagara Falls, Ont., Canada. (See January 1 issue.)

January 20 and 21, Indiana Arborists' Association, Purdue University, Lafayette, Ind. (See December 15 issue.)

January 20 and 21, Oregon Association of Nurserymen, Multnomah hotel, Portland, Ore.

January 21, Western New York Nurserymen's Association, Sheraton hotel, Rochester, N. Y.

January 23 to 25, Southern Nurserymen's Association, winter trade meeting, Roosevelt hotel, Jacksonville, Fla.

January 24 to 26, Kentucky State Nurserymen's Association, Brown hotel, Louisville, Ky.

January 26, northern California nurserymen's institute, University of California, Davis, Calif.

January 26 and 27, short course, Connecticut Nurserymen's Association, University of Connecticut, Storrs, Conn. (See December 15 issue.)

January 27 and 28, New Jersey Association of Nurserymen, Chalfonte-Haddon Hall hotel, Atlantic City, N. J. (See December 15 issue.)

January 27 to 29, Michigan Association of Nurserymen, Pantlind hotel, Grand Rapids, Mich.

January 30 to February 1, Tennessee Nurserymen's Association, golden anniversary convention, Hotel Andrew Jackson, Nashville, Tenn.

January 30 to February 1, Virginia Nurserymen's Association, John Marshall hotel, Richmond, Va.

January 31 and February 1, National Arborists Association, William Penn hotel, Pittsburgh, Pa.

February 1 to 3, New England Nurserymen's Association, Hotel Kenmore, Boston, Mass.

February 7, southern California nurserymen's institute, University of California, Los Angeles, Calif.

February 9, 1-day program for nurserymen sponsored by the extension services of Nassau and Suffolk counties, New York, Knapp Hall lounge, Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

February 9 and 10, Pennsylvania Nurserymen's Association, Yorktowne hotel, York, Pa.

February 10, garden supply dealers' meeting, sponsored by the extension services of Nassau and Suffolk counties, New York, Shadow Lawn restaurant, Hempstead, N. Y.

February 10, estate superintendents' meeting, sponsored by the extension services of Nassau and Suffolk counties, New York, Brookville Country Club, Glen Head, N. Y.

February 15 to 17, nursery conference, sponsored by the department of horticulture of Pennsylvania State University, State College, Pa.

February 20 to 22, Georgia State Florists' and Nurserymen's Association, Bon Air hotel, Augusta, Ga.

February 23 to 25, midwestern chapter, National Shade Tree Conference, Chase hotel, St. Louis, Mo.

March 5, western chapter, National Shade Tree Conference, northern section, University of California, Davis, Calif.

April 4 to 6, southern chapter, National Shade Tree Conference, Washington hotel, Washington, D. C.

## NEW ENGLAND PROGRAM

The 44th annual meeting of the New England Nurserymen's Association

## YO' ALL COME! Out-of-State Nurserymen Invited

TENNESSEE NURSERYMEN'S ASSOCIATION  
**50TH ANNIVERSARY MEETING**  
JAN. 30-31, FEB. 1, '55

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Choice Stock

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| 10 Acer Platanoides Drummondii, 6 to 8 ft. ....    | \$600.00 |
| 25 Azalea Canadensis, 18 to 24 ins. ....           | 250.00   |
| 10 Cherry, Kwanzan, 6 to 8 ft. ....                | 475.00   |
| 10 Cherry, Mt. Fuji, 6 to 8 ft. ....               | 475.00   |
| 100 Cladrastis Lutea, 2 ft., XX. ....              | 75.00    |
| 100 Dogwood, Pink, 2 to 3 ft. ....                 | 225.00   |
| 100 Eucalyptus Alatus Compactus, 2 ft. ....        | 150.00   |
| 50 Hornbeam, Fastigiate, 3 to 4 ft. ....           | 475.00   |
| 50 Laburnum Vossii, 6 to 8 ft. ....                | 550.00   |
| 40 Laburnum Vossii, 5 to 6 ft. ....                | 475.00   |
| 25 Magnolia Lenzel Alba, 2 to 4 ft. ....           | 400.00   |
| 100 Mahonia Aquifolium, 12 to 15 ins. ....         | 65.00    |
| 50 Prunus Amanogawa, 6 to 8 ft. ....               | 500.00   |
| 150 Prunus Subhirtella Pendula, 2-yr., No. 1. .... | 550.00   |
| 10 Viburnum Fragrans, 3 to 4 ft. ....              | 350.00   |

Cash with order; 25 at 100 rate.

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Hemming Strain Blight-Resistant Trees

Seed \$1.25 per lb.

\$100.00 per 100 lbs.

|                    | Per 10 | Per 100 | Per 1000 |
|--------------------|--------|---------|----------|
| 12 to 18 ins. .... | \$2.50 | \$22.50 | \$200    |
| 18 to 24 ins. .... | 3.50   | 32.50   | 300      |
| 2 to 3 ft. ....    | 6.00   | 55.00   | 500      |
| 3 to 4 ft. ....    | 7.50   | 70.00   | 650      |

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tion will be held at the Hotel Kenmore, Boston, Mass., February 1 to 3.

A social hour, with refreshments supplied by Bill Richey, Lee Patten Seed Co., Jersey City, N. J., will begin the first day's events and will be followed by a luncheon, at which an address will be given by Richard P. White, executive secretary of the American Association of Nurserymen.

At 2:30 p. m., February 1, John C. Brownell will present the president's annual address. Reports of officers and committees will follow.

A plant identification contest for early arrivals will be held Wednesday morning, February 2. Clifford Corliss, general manager of Corliss Bros., Inc., Gloucester, Mass., will begin the educational program with a talk on the promotion of retail sales. "Should I Use Irrigation and How?" will be discussed by Luther Baumgartner, owner and director of Baumlanda Horticultural Research Laboratory.

After luncheon Emil Trampusch and Bill Conc, partners in the Garden Exchange, Bridgeport, Conn., will discuss "Retail Marketing from a Garden Shop." Case Hoogendoorn, Newport, R. I., will speak on "Nursery Growing from a Practical Point of View."

Thursday morning's session will include reports of standing committees and the election of officers. Valteau C. Curtis, A. A. N. director for region 1, will speak on "Why Every Nurseryman Should Belong to the American Association of Nurserymen."

After luncheon, at which Dr. Henry Gerald will speak, convention business will be concluded.

#### OHIO SHORT COURSE

The special interests of arborists, landscape gardeners and nurserymen will be served on three separate days at the 26th annual short course sponsored by the department of horticulture of Ohio State University. The course will be held January 17 to 19, at the Neil House, Columbus, O.

The first day, January 17, will be arborists' day and will open with two papers on herbicides. J. Melvin Easterday, landscape contractor, Canton, O., will discuss control of lawn weeds, and Homer L. Jacobs, Davey Tree Expert Co., Kent, O., will talk on brush control. The morning session of this day will be completed with a talk on compatibilities and stability of insecticides and fungicides, by Dr. Ralph B. Neiswander, department of ento-



## MUSSER TREES GROW

Good heredity, careful selection of seed and scientific culture in the nursery assure superior stock. **Heavy Roots — Sturdy Tops,** assure rapid growth.



Comparison of MUSSER seedling (at right of picture) with an ordinary seedling.

#### SEEDLINGS AND TRANSPLANTS AT LOW QUANTITY PRICE

|                                  | Per<br>100 | Per<br>1000 |                                   | Per<br>100 | Per<br>1000 |
|----------------------------------|------------|-------------|-----------------------------------|------------|-------------|
| ● <b>RED BARBERRY</b>            |            |             | ● <b>COLORADO BLUE SPRUCE</b>     |            |             |
| 2-yr., S., 4 to 10 ins.          | \$10.00    | \$50.00     | 2-yr., S., 3 to 6 ins.            | \$ 7.00    | \$35.00     |
| 3-yr., S., 8 to 15 ins.          | 16.00      | 80.00       | 3-yr., S., 5 to 10 ins.           | 12.00      | 60.00       |
| ● <b>CEDRUS ATLANTICA GLAUCA</b> |            |             | (Very superior stock)             |            |             |
| 2-yr., S., 6 to 12 ins.          | 15.00      | 100.00      | 4-yr., T., 6 to 10 ins.           | 30.00      | 150.00      |
| 3-yr., S., 12 to 24 ins.         | 30.00      | .....       | ● <b>TAXUS CUSPIDATA</b>          |            |             |
| ● <b>WHITE DOGWOOD</b>           |            |             | 1-yr., T., 5 to 6 ins.            | 20.00      | 150.00      |
| 1-yr., S., 6 to 9 ins.           | .....      | 45.00       | ● <b>TAXUS CUSPIDATA CAPITATA</b> |            |             |
| 2-yr., S., 10 to 16 ins.         | .....      | 75.00       | 2-yr., S. (2-0),                  |            |             |
| 2-yr., S., 16 to 24 ins.         | .....      | 90.00       | 4 to 7 ins.                       | 15.00      | 125.00      |
| ● <b>NORWAY MAPLE</b>            |            |             | 3-yr., S. (3-0),                  |            |             |
| 1-yr., S., 6 to 10 ins.          | 8.00       | 40.00       | 8 to 12 ins.                      | 30.00      | 250.00      |
| 2-yr., S., 10 to 15 ins.         | 14.00      | 70.00       | ● <b>TAXUS HICKSI</b>             |            |             |
| ● <b>MUGHO PINE (True Dwarf)</b> |            |             | 1-yr., T., 5 to 7 ins.            | 20.00      | 175.00      |
| 3-yr., S., 4 to 6 ins.           | 7.00       | 35.00       | ● <b>TAXUS HUNNEWELLIANA</b>      |            |             |
| 5-yr., T., 6 to 12 ins.          | 16.00      | 80.00       | 1-yr., T., 5 to 7 ins.            | 25.00      | 200.00      |

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Blue Prince, 3 canes, 9 ins. and up  
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Red Lake Currants, 2-yr. 1 and 1-yr. 1  
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|   | Per 100 |
|---|---------|
| Hydrangea P.G., 1-yr., layer                      | \$ 8.50 |
| Red Oak, 2-yr., S.                                | 11.50   |
| Scarlet Oak, 2-yr., S.                            | 16.50   |
| White-flowering Dogwood, 1-yr., S., 10 to 15 ins. | 7.50    |
| 1-yr., S., 6 to 10 ins.                           | 4.50    |
| Euonymus alatus, 6 to 8 ins., T.                  | 17.50   |
| Silver Maple, 3 to 4 ft., T.                      | 22.50   |
| Salix babylonica, 4 to 5 ft.                      | 17.50   |
| 5 to 6 ft.  | 22.50   |
| 6 to 7 ft.  | 28.50   |
| Oriental Plane, 4 to 5 ft.                        | 22.50   |
| California Privet, 18 to 24 ins.                  | 11.00   |
| 2 to 3 ft.  | 15.00   |
| 3 to 4 ft.  | 20.00   |

### TRANSPLANTED BEDDED EVERGREENS

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| Retinospora plumosa, 6 to 8 ins., T.       | 20.00 |
| Retinospora plumosa aurea, 6 to 8 ins., T. | 20.00 |
| Juniperus pfitzeriana, 6 to 7 ins., T.     | 25.00 |

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Fruit trees, shrubs, shade trees,  
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#### QUANTITIES IN:

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Arborvitae, Dark Green American  
Berberis Mentorensis  
Birch, Weeping Cutleaf  
Cornus Florida  
Cotoneaster Divaricata  
Cotoneaster Opiculata  
Crab Apple, Flowering  
Euonymus Alatus Compactus  
Euonymus Patens  
Euonymus Vegetus  
Juniperus Canaerti  
Juniperus Columnaris  
Juniperus Glaucia  
Juniperus Keteleeri  
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Privet, Amur River North  
Prunus Newport  
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mology, Ohio agricultural experiment station, Wooster.

To open the afternoon session, Dr. J. C. Carter, Illinois Natural History Survey, will discuss the wet-wood disease. This will be followed by a panel discussion on the use of chelated iron in chlorosis control, led by Dr. L. C. Chadwick, Ohio State University. An arboriculture clinic, moderated by Paul E. Tilford, executive secretary of the National Arborist Association, will complete the afternoon program.

During the evening of January 17, there will be a dinner, with Carl Fenner, city forester, Lansing, Mich., as speaker. After this there will be a business meeting of the Ohio chapter of the National Shade Tree Conference.

Landscape gardeners' day will be January 18. Opening the morning session will be Prof. Victor H. Ries, Ohio State University, who will discuss "Ornamental Plants for Shade." He will be followed by Dr. Richard R. Davis, Ohio agricultural experiment station, who will speak on turf grass studies made at the station.

The afternoon session will begin with a discussion of garden lighting, by Roy E. Lemley, the McCleery-Carpenter Electric Co., Columbus, O. The next speaker will be Prof. Robert S. Reich, Louisiana State University, who will offer some new considerations in landscape design. The session will conclude with a landscape clinic, for which Professor Ries will return to act as moderator.

At an evening session, Dr. John Creech, United States plant introduction garden, Glenn Dale, Md., will speak on "Better Plants for Landscape Design."

Nurserymen will have their day January 19, with a program sponsored jointly by Ohio State University and the Ohio Nurserymen's Association. The morning session will open with a panel on chemical weed control in nurseries, with special emphasis on application methods and plant tolerance. Dr. E. Kenneth Alban, Ohio State University, will be the leader for this discussion.

Arthur Lancaster, Coleman Nursery, Portsmouth, Va., will conclude the morning session with advice on selling container-grown nursery stock.

The Ohio State University Floriculture Alumni Association will hold a luncheon at noon, and at 2 p. m. the sessions will resume with a discussion of soil maintenance practices for nurserymen.

The remainder of the afternoon will be given over to round-table

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Quality collected trees; selected straight and branched. Terms: Cash.

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| 3 to 4 ft., B.R.  | \$ 30.00 |
| 3 to 4 ft., B&B   | 40.00    |
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| 4 to 5 ft., B&B   | 55.00    |
| 5 to 6 ft., B.R.  | 55.00    |
| 5 to 6 ft., B&B   | 75.00    |
| 6 to 8 ft., B.R.  | 75.00    |
| 6 to 8 ft., B&B   | 100.00   |
| 8 to 10 ft., B.R. | 100.00   |
| 8 to 10 ft., B&B  | 135.00   |

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workshops. A workshop on propagation will be led by Vincent K. Bailey, J. V. Bailey Nurseries, St. Paul, Minn.; Lewis Lipp, Holden Arboretum, Mentor, O., and Laddie J. Mitiska, Mitiska Nursery, Amherst, O.

A round table on plant materials will be directed by William D. Cole, Cole Nursery Co., Painesville, O.; Dr. Creech; Jack R. Siebenthaler, the Siebenthaler Co., Dayton, O., and Dr. Henry Skinner, U. S. National Arboretum, Washington, D. C.

A third round table, on soils programs, will be led by Donald J. Hillenmeyer, Hillenmeyer Nurseries, Lexington, Ky.; Kenneth W. Reisch, Ohio State University, and Frank Turner, Berryhill Nursery Co., Springfield, O.

### OHIO MEETING

The meeting of the Ohio Nurserymen's Association will open Thursday morning, January 20, at the Neil House, Columbus, with a talk on advertising by Earl McIntyre, associate professor of journalism at Michigan State College. Professor McIntyre will be followed by Curtis Porterfield, American Association of Nurserymen, who will speak on nation-wide activities of the nursery industry.

The afternoon session will open with a discussion of portable irrigation for nurseries, by Robert J. McCall, New-Way Farm Sales, Columbus. The session will conclude with a talk on the United States National Arboretum, with comments on individual plant subjects, by Henry T. Skinner, director of the arboretum.

Among the items scheduled for Friday morning, January 21, will be a report of horticultural research at Ohio State University. It will be given by John Strate, who is studying at the university on a fellowship provided by the Ohio Nurserymen's Association.

### TENNESSEE NURSERYMEN TO HOLD 50TH CONVENTION

The 50th anniversary meeting of the Tennessee Nurserymen's Association, to be held at the Hotel Andrew Jackson, Nashville, Tenn., January 30 to February 1, will be furnished with entertainment by nurserymen of Warren, DeKalb and Franklin counties, three major nursery areas of the state.

A feature of the golden anniversary meeting will be the presentation of an award by Vernon Marshall, vice-president of the American As-

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## FAMOUS STERN'S NURSERIES' ROSE OF SHARON TREES

### A PROVEN BEST SELLER!

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ORDER EARLY  
while all colors are in supply

- ★ DOUBLE RED
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Carefully packed by expert nurserymen.

If you desire individual root wrapping, please add 25c per plant.

At last! Now you can offer these popular Rose of Sharon trees. Now you can profit from one of the biggest and most successful promotions in garden merchandising.

### BEAUTIFUL TREES— ABSOLUTE TOPS IN QUALITY

4 to 5 ft. tall with thick 2-ft. stems and heavy 2 to 3-ft. heads.

ADVERTISED RETAIL PRICE... \$4.00 each  
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|--------------------------------|---------|----------|
| Washington Hawthorn,           |         |          |
| 6 to 9 ins., S. ....           | \$ 7.50 | \$ 65.00 |
| 9 to 12 ins., T. ....          | 15.00   | 135.00   |
| Cornus florida,                |         |          |
| 6 to 12 ins., S. ....          | 7.50    | 65.00    |
| Cotinus coggygia (Smoke Tree), |         |          |
| 9 to 12 ins., S. ....          | 12.50   | ....     |
| 12 to 18 ins., S. ....         | 17.50   | ....     |
| Kolkwitzia amabilis,           |         |          |
| 6 to 9 ins., S. ....           | 10.00   | 85.00    |
| Rhodotypos scandens            |         |          |
| 6 to 12 ins., S. ....          | 7.50    | 65.00    |
| Syringa vulgaris,              |         |          |
| 6 to 12 ins., S. ....          | 7.50    | 65.00    |
| Viburnum dentatum,             |         |          |
| 12 to 18 ins., S. ....         | 12.50   | 100.00   |
| Viburnum dilatatum,            |         |          |
| 18 to 24 ins., S. ....         | 17.50   | ....     |
| Viburnum lantana,              |         |          |
| 6 to 12 ins., S. ....          | 10.00   | 85.00    |
| 12 to 18 ins., S. ....         | 15.00   | 125.00   |
| 18 to 24 ins., S. ....         | 17.50   | 150.00   |
| Viburnum opulus,               |         |          |
| 12 to 18 ins., S. ....         | 12.50   | 100.00   |
| 18 to 24 ins., S. ....         | 15.00   | 125.00   |

**NEWPORT NURSERY CO.**  
NEWPORT, MICH.

## ARMINTROUT'S EVERGREEN NURSERY ALLEGAN, MICH.

Seedlings—Transplants  
Finished Stock  
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and SHRUBS**

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Wayside Gardens

sociation of Nurserymen, to the Super Service Motor & Freight Co., Inc., Nashville, a national winner in the past year's industrial landscaping competition. Jones Ornamental Nursery, operated by Richard H. Jones, a past president of the A. A. N., will also receive an award, as the firm that landscaped the grounds of the Super Service Motor & Freight Co.

Hubert Nicholson, president of the Tennessee Nurserymen's Association, has been working diligently on the meeting along with B. R. Allison, general chairman.

The lobby display committee is comprised of Ronald Hickerson, Jesse Tritschler and Larrimore Foster; the fund raising committee includes Leon Hawkersmith, and the exhibit committee, Richard H. Jones, Robert McIntyre and C. V. Tibbs.

George Morehead and Hubert Nicholson are on the publicity committee, and the printed program and advertising work is being handled by Henry Boyd, Buddy Cartwright, Buddy Howell and Jesse Tritschler. On the ladies' program committee are Mrs. B. R. Allison, Mrs. Jesse Tritschler and Mrs. C. V. Tibbs. The meeting room decorations will be handled by Charles Tritschler and H. R. Potter.

## MICHIGAN PLANS COMPLETE

"Disease and Pest Control in the Nursery," by Dr. A. E. Mitchell, Michigan State College, will be discussed at the convention of the Michigan Association of Nurserymen, to be held January 27 to 29, at the Pantlind hotel, Grand Rapids, Mich. Commercial and educational exhibits will be displayed throughout the first day, after registration at 1 p. m. New members will be introduced at the annual get-together party at 7:30 p. m.

The program for Friday, January 28, will begin with a film on Merion bluegrass, followed by the president's welcome and Dr. Mitchell's talk on disease and pest control. "The Landscape Team" will be discussed by Edward Laird, Wilcox & Laird, Birmingham, Mich., and Dr. Donald P. Watson, Michigan State College, is scheduled to speak on "Research Review." Officers and directors will be nominated, and the secretary of the M. A. N. will give a report. Also included in the Friday morning session is a debate on foreign versus domestic peat, with Dr. Fred Widmoyer, Michigan State College, as moderator.

After luncheon, Dr. Richard P. White, executive secretary of the

## MULTIFLORA ROSES UNDERSTOCK

Straight shanked seedlings grown especially for understock. Expertly graded to suit the most particular.

|                      | Per 1000 |
|----------------------|----------|
| 4 to 6-mm. cal. .... | \$27.50  |
| 2 to 4-mm. cal. .... | 17.50    |

Also available are the following grades for living fences, conservation plantings.

| Cal.        | Ins.     | Per 1000 |
|-------------|----------|----------|
| 2 to 3-mm.  | 8 to 15  | \$12.50  |
| 3 to 5-mm.  | 12 to 18 | 19.50    |
| 3 to 8-mm.  | 12 to 24 | 22.50    |
| 5 to 12-mm. | 18 to 36 | 32.50    |

Write for special quotations on quantities of 10,000 or more.

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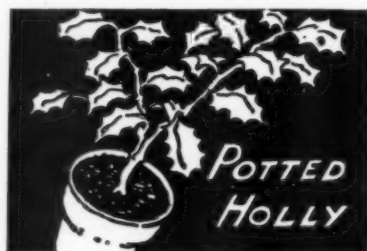
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We have choice named varieties which have been widely used by many eastern nurseries. Root-bound holly liners out of 3-in. pots or deep soil cans, from 6 to 10 ins. high. Also rooted cuttings, Ilex Cornuta Burfordi, Franklinia rooted cuttings, Arctostaphylos (Bearberry), out of 3-in. pots.

Taxus (varieties), 1 and 2-yr. We guarantee true to name and a reliable year-after-year source.

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CHARLOTTE, VT.

Finest Quality  
**PERENNIALS and SHRUBS**

Write for complete trade list.

**KINGWOOD NURSERIES**  
MENTOR, O.



American Association of Nurserymen, will give an address on the nation's nursery business, followed by the election of officers and directors, reports of standing committees and a business meeting. "The Michigan State College Centennial Milestone and a Forward Look for the Nurseryman" will be the topic of a speech by Bernard Ward, M. A. N. secretary and president-elect of the Michigan Agricultural Conference. The annual banquet will be held at 7 p. m., with entertainment and dancing.

On Saturday morning, dormant plant materials will be displayed and discussed by John Stark, Stark's Nursery, Midland, and Harold Davidson, Michigan State College. James S. Wells, D. Hill Nursery Co., Dundee, Ill., is scheduled to discuss recent developments in plant propagating techniques, after which will be a talk on chemical weed control in nurseries, by E. S. Hagwood, Niagara Chemical Co., Middleport, N. Y., and a report by George McIntyre, Michigan agricultural commission, on the relationship of the Michigan department of agriculture with various industries. The program will be concluded with a meeting of the Michigan chapter of the A. A. N. and the election of delegates to the 1955 A. A. N. convention.

### BELTSVILLE OPEN HOUSE

January 25, the ornamental plants section of the horticultural crops research branch, agricultural research service of the United States Department of Agriculture, will hold an open house for bulb growers, florists and dealers.

After a short program in the auditorium at 10 a. m., with brief talks by members of the staff, a tour of the floriculture greenhouses at the plant industry station at Beltsville, Md., will be made, with explanatory comments by staff members. Lunch-con will be available at the station cafeteria, and those planning to attend should notify Dr. S. M. Emsweller at the Beltsville station.

The ornamental plant section now includes research on shade trees, and some work will be seen on the studies of systemic fungicides to control Dutch elm disease. A mist propagation bench for leaf cuttings of elm will be in operation.

### LONG ISLAND SCHOOL

"Estimating Landscape Jobs" will be the topic of a talk by Allan Dalsimer, Dalsimer, Inc., Cedarhurst, N. Y., at the 11th annual 2-day

## Grafted Stock for Spring, 1955, Delivery

Grafts are normally ready for shipment after April 15. Since there is a possibility of damage by late spring frost, kindly give a shipping date when you feel it is safe to plant without frost injury.

|   | Per 10 | Per 100 |
|---|--------|---------|
| <i>Acer palmatum atropurpureum</i> .....  | \$7.50 | \$45.00 |
| <i>Acer rubrum columnare</i> .....        | 7.50   | 65.00   |
| <i>Acer saccharum monumentale</i> .....   | 7.50   | 65.00   |
| <i>Cedrus atlantica glauca</i> .....      | 7.50   | 65.00   |
| <i>Cornus florida alba plena</i> .....    | 6.00   | 50.00   |
| <i>Cornus florida rubra</i> .....         | 6.00   | 50.00   |
| <i>Cornus florida rubra Prosser</i> ..... | 7.50   | 65.00   |
| <i>Hamamelis mollis</i> .....             | 6.00   | 50.00   |
| <i>Hamamelis vernalis</i> .....           | 6.00   | 50.00   |
| <i>Ilex opaca femina</i> .....            | 7.00   | 60.00   |

(our selection of the following named varieties:)

|                             |                 |
|-----------------------------|-----------------|
| Arden                       | Lake City       |
| Cheerful                    | Mae             |
| Christmas Tide              | Manig           |
| Delia Bradley               | Merry Christmas |
| Forge                       | Miss Helen      |
| Hookstraw (Old Heavy Berry) | Osa             |
| Joyce                       | Richards        |

(Write for quotations on varieties of your selection.)

|   |      |       |
|---|------|-------|
| <i>Ilex opaca mascula</i> .....                         | 7.00 | 60.00 |
| <i>Juniperus chinensis columnaris glauca</i> .....      | 6.00 | 50.00 |
| <i>Juniperus chinensis columnaris viridis</i> .....     | 6.00 | 50.00 |
| <i>Juniperus chinensis tetelaei</i> .....               | 6.00 | 50.00 |
| <i>Juniperus chinensis neoboricensis</i> .....          | 6.00 | 50.00 |
| <i>Juniperus chinensis sargentii</i> .....              | 6.00 | 50.00 |
| <i>Juniperus chinensis sargentii glauca</i> .....       | 6.00 | 50.00 |
| <i>Juniperus sabinna vanderhorstii</i> .....            | 6.00 | 50.00 |
| <i>Juniperus squamata mayeri</i> .....                  | 6.00 | 50.00 |
| <i>Juniperus virginiana burki</i> .....                 | 6.00 | 50.00 |
| <i>Juniperus virginiana canaerli</i> .....              | 6.00 | 50.00 |
| <i>Juniperus virginiana elegantissima</i> .....         | 6.00 | 50.00 |
| <i>Juniperus virginiana glauca</i> .....                | 6.00 | 50.00 |
| <i>Juniperus virginiana kosteriana</i> .....            | 6.00 | 50.00 |
| <i>Juniperus virginiana pyramidiformis hillii</i> ..... | 6.00 | 50.00 |
| <i>Juniperus virginiana schottii</i> .....              | 6.00 | 50.00 |
| <i>Magnolia cordata</i> .....                           | 7.50 | 65.00 |
| <i>Magnolia rustica rubra</i> .....                     | 7.00 | 60.00 |
| <i>Magnolia sieboldii parviflora</i> .....              | 7.00 | 60.00 |
| <i>Magnolia soulangeana</i> .....                       | 7.00 | 60.00 |
| <i>Magnolia soulangeana nigra</i> .....                 | 7.00 | 60.00 |
| <i>Magnolia stellata</i> .....                          | 7.00 | 60.00 |
| <i>Magnolia stellata rubra</i> .....                    | 7.50 | 65.00 |
| <i>Magnolia stellata Water Lily</i> .....               | 6.50 | 60.00 |
| <i>Parrotia persica</i> .....                           | 6.50 | 60.00 |
| * <i>Pinus cembra</i> .....                             | 6.50 | 55.00 |
| <i>Thuja occidentalis douglasii spiralis</i> .....      | 5.00 | 40.00 |
| <i>Thuja occidentalis elegantissima</i> .....           | 5.00 | 40.00 |
| <i>Thuja occidentalis lutea George Peabody</i> .....    | 5.00 | 40.00 |
| <i>Thuja occidentalis lutea Mary Corey</i> .....        | 5.00 | 40.00 |
| <i>Thuja occidentalis nigra</i> .....                   | 5.00 | 40.00 |
| <i>Thuja occidentalis pyramidalis</i> .....             | 5.00 | 40.00 |
| <i>Thuja occidentalis rosenthalii</i> .....             | 5.00 | 40.00 |
| <i>Thuja occidentalis wareana (sibirica)</i> .....      | 5.00 | 40.00 |
| <i>Thuja orientalis aurea nana</i> .....                | 5.00 | 40.00 |
| <i>Thuja orientalis conspicua</i> .....                 | 5.00 | 40.00 |
| <i>Thuja orientalis elegantissima</i> .....             | 5.00 | 40.00 |
| <i>Tsuga canadensis pendula</i> .....                   | 6.00 | 50.00 |

\*Five-needle pines cannot be shipped in the following states: Arizona, California, Colorado, Georgia, Kentucky, New Mexico, Nevada, South Carolina and Tennessee.

DUE TO HANDLING COSTS, ORDERS FOR LESS THAN \$5.00 CANNOT BE ACCEPTED.

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Prices in this list are net cash F.O.B. Mountain View, N. J., but the usual terms will be extended to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. Five of one kind will be billed at the 10 rate; 25 at the 100 rate; 250 at the 1000 rate. From those not acquainted with our stock, a trial order will be appreciated. Packing extra at cost.

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### FRENCH PUSSY WILLOW

(Selfs Discolor Selection)

Beautiful February-forcing strain. Catkin sheath is a rich mahogany-red with attractive large silvery-pink catkins when mature.

Root and top pruned liners, \$12.00 per 100; \$100.00 per 1000.

15 to 18 ins., \$25.00 per 100; \$200.00 per 1000.

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## FOREST TREE SEEDLINGS

| Per 100 Per 1000            |         | Per 100 Per 1000 |  |
|-----------------------------|---------|------------------|--|
| <b>ASH, GREEN</b>           |         |                  |  |
| 6 to 12 ins.                | \$ 1.40 | \$ 12.00         |  |
| 12 to 18 ins.               | 1.90    | 16.00            |  |
| <b>BOX ELDER</b>            |         |                  |  |
| 6 to 12 ins.                | 1.20    | 10.00            |  |
| 12 to 18 ins.               | 1.90    | 16.00            |  |
| <b>CARAGANA ARBORESCENS</b> |         |                  |  |
| 6 to 12 ins.                | 2.10    | 18.00            |  |
| 12 to 18 ins.               | 3.50    | 30.00            |  |
| 18 to 24 ins.               | 5.00    | 45.00            |  |
| 2 to 3 ft.                  | 7.00    | 60.00            |  |
| 3 to 4 ft.                  | 8.50    | 75.00            |  |
| <b>CATALPA SPECIOSA</b>     |         |                  |  |
| 6 to 12 ins.                | 1.20    | 10.00            |  |
| 12 to 18 ins.               | 1.90    | 15.00            |  |
| 18 to 24 ins.               | 2.60    | 22.00            |  |
| 2 to 3 ft.                  | 4.00    | 35.00            |  |
| <b>CHINESE CHESTNUT</b>     |         |                  |  |
| 12 to 18 ins.               | 8.50    | 75.00            |  |
| 18 to 24 ins.               | 11.00   | 100.00           |  |
| 2 to 3 ft.                  | 14.00   | 125.00           |  |
| <b>CORYLUS AMERICANA</b>    |         |                  |  |
| 12 to 18 ins.               | 9.00    | 80.00            |  |
| <b>ELM, AMERICAN</b>        |         |                  |  |
| 6 to 12 ins.                | 1.20    | 10.00            |  |
| 12 to 18 ins.               | 1.90    | 16.00            |  |
| 18 to 24 ins.               | 2.60    | 22.00            |  |
| <b>ELM, CHINESE</b>         |         |                  |  |
| 12 to 18 ins.               | 2.10    | 18.00            |  |
| 18 to 24 ins.               | 2.90    | 25.00            |  |
| 2 to 3 ft.                  | 4.50    | 40.00            |  |
| 3 to 4 ft.                  | 7.50    | 65.00            |  |
| 4 to 5 ft.                  | 11.00   | 100.00           |  |
| 5 to 6 ft.                  | 19.00   | 160.00           |  |
| <b>HONEY LOCUST</b>         |         |                  |  |
| 6 to 12 ins.                | \$ 1.10 | \$ 10.00         |  |
| 12 to 18 ins.               | 1.90    | 16.00            |  |
| <b>LOCUST, BLACK</b>        |         |                  |  |
| 12 to 18 ins.               | 1.70    | 14.00            |  |
| 18 to 24 ins.               | 2.40    | 20.00            |  |
| 2 to 3 ft.                  | 3.20    | 28.00            |  |
| 3 to 4 ft.                  | 4.50    | 40.00            |  |
| 4 to 5 ft.                  | 5.60    | 50.00            |  |
| <b>MAPLE, SILVER</b>        |         |                  |  |
| 6 to 12 ins.                | 2.10    | 18.00            |  |
| 18 to 24 ins.               | 4.00    | 35.00            |  |
| 2 to 3 ft.                  | 6.50    | 60.00            |  |
| <b>OAK, PIN</b>             |         |                  |  |
| 9 to 12 ins.                | 6.50    | 55.00            |  |
| 12 to 18 ins.               | 8.50    | 75.00            |  |
| 2 to 3 ft.                  | 14.00   | 120.00           |  |
| <b>OSAGE ORANGE</b>         |         |                  |  |
| 6 to 12 ins.                | 1.20    | 10.00            |  |
| 12 to 18 ins.               | 1.80    | 15.00            |  |
| 18 to 24 ins.               | 2.40    | 20.00            |  |
| <b>RUSSIAN OLIVE</b>        |         |                  |  |
| 12 to 18 ins.               | 3.50    | 30.00            |  |
| 18 to 24 ins.               | 5.00    | 45.00            |  |
| 2 to 3 ft.                  | 7.00    | 65.00            |  |
| 3 to 4 ft.                  | 10.00   | 90.00            |  |
| 4 to 5 ft.                  | 16.00   | 140.00           |  |
| <b>SHELL BARK HICKORY</b>   |         |                  |  |
| 9 to 12 ins.                | 6.50    | 60.00            |  |
| 12 to 18 ins.               | 8.50    | 75.00            |  |
| 18 to 24 ins.               | 12.00   | 100.00           |  |
| <b>WALNUT, BLACK</b>        |         |                  |  |
| 12 to 18 ins.               | 3.50    | 30.00            |  |
| 18 to 24 ins.               | 4.50    | 40.00            |  |
| 2 to 3 ft.                  | 7.00    | 60.00            |  |
| 3 to 4 ft.                  | 10.00   | 90.00            |  |
| 4 to 5 ft.                  | 14.00   | 120.00           |  |

Write for special quantity quotations.

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Hydrangea P. G.  
Hydrangea P. G. (Tree Form)  
Ornamental Trees  
Grapevines, 1-yr.

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Wholesale growers of the best  
Ornamental Evergreens  
Deciduous Trees  
Shrubs and Roses

Write for our current trade list  
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**ILEX CRENATA CONVEXA**  
**ILEX CRENATA ROTUNDIFOLIA**

2-yr., transplants  
branched, heavy

Per 100  
6 to 8 ins. .... \$25.00  
8 to 10 ins. .... 30.00

**MITISKA NURSERY**  
AMHERST, O.

**TEUCRIUM CHAMAEDRYS**

Per 100 Per 1000  
Top size .... \$17.50 \$150.00  
Medium grade .... 12.00 100.00  
Well-rooted cuttings .... 5.00 45.00

**BEARDSLEE NURSERY**  
PERRY, O.

school for nurserymen, which will take place January 18 and 19 in the Knapp Hall lounge, Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

Dr. George Lawrence, director of Bailey Hortorium, Cornell University, will discuss how plants are named, and Phil Alampi, of ABC and NBC television, will speak on "Authentic Advertising."

Vapor control in plant propagation will be discussed by Harvey Gray, and "Can Culture" will be the topic of a talk by Peter Bosle, both of the Long Island institute. Included in the program is Russell Harmon, LaBar's Rhododendron Nursery, Stroudsburg, Pa., who will speak on "The Application of Native Plants to the Modern Landscape."

Those interested in attending the program should send registration checks for \$3, payable to Clarence E. Lewis, chairman of the meeting, at the institute. This money will be used to pay for program expenses.

### SHADE TREE CONFERENCE

Tree diseases in the midwest will be discussed by Dr. T. W. Bretz, University of Missouri, Columbia, at the 10th annual meeting of the midwestern chapter, National Shade Tree Conference, to be held February 23 to 25 at the Chase hotel, St. Louis, Mo.

Registration of delegates will begin at 8:30 a.m. Wednesday, February 23, and the first paper on the educational program will be presented at 11 a. m. After presentation of each report, there will be a period for discussion and questions. Additional opportunity for questions and discussion will be provided in the plant clinic session.

Included on the educational program will be Stuart M. Mertz, landscape architect, Clayton, Mo., who will speak on correlating planting to modern architecture; Leslie Prichard, advertising censor and research director, St. Louis Post-Dispatch, who will use "Ethical Practice Is Good Business" for his subject, and Dr. E. R. Spencer, consulting botanist and plant pathologist, Lebanon, Ill., who will talk on trace elements and their effect on plant life. Damage to shade trees from construction operations will be discussed by Gerrit A. Visser, Shield Shade Tree Specialists, Clayton, Mo., and "Concentration and Timing of Antibiotic Sprays for Control of Fire Blight" will be the topic of Dr. Robert N. Goodman, professor of horticulture, University of Missouri.

August P. Beilmann, manager,

Missouri Botanical Garden, Gray Summit, Mo., will talk on weather effects on tree growth, and Ernie Herrbach, horticulturist, Standard Oil Co., Chicago, will present a film, "Dutch Elm Disease and Elm Phloem Necrosis."

Various tools and supplies used in arboricultural work will be on display in the Chase hotel throughout the convention, with representatives on hand to explain their uses. A special program has been arranged for the ladies.

### WESTERN TREE CONVENTION

The University of California campus at Davis will be the site of the annual meeting of the Western chapter of the National Shade Tree Conference (northern section), to be held March 5.

### SOUTHERN TREE MEETING

The Southern chapter of the National Shade Tree Conference will hold its annual convention at the Washington hotel, Washington, D. C., April 4 to 6.

### NEW YORK ARBORISTS

Hotel Onondaga, Syracuse, N. Y., will be the site of the New York State Arborists' Association convention, to be held jointly with the New York arborists' school, January 17 and 18.

At the arborists' school, Prof. George J. Albrecht, New York State College of Forestry, will discuss trees for street planting and ranch house areas, after the registration and a welcome by Dean Hardy L. Shirley, of the college of forestry, on Monday, January 17. "Shrubs and Their Care" will be the topic of Prof. Arthur T. Viertel, to be followed by lunch and a talk on diseases of evergreens, by Dr. Savel B. Silverborg, of the forestry college, and Dr. Donald S. Welch, Cornell University. Insect problems will be discussed by Dr. J. L. Krall and D. F. Clower, and Prof. D. P. White, of the college, will speak on soil deficiencies. After a recreation period and banquet, Prof. Donald Cullen, Cornell University, will conclude the first day's events with a talk on labor relations.

The New York State Arborists' Association convention will begin Tuesday, January 18, with a business meeting and election of officers. Antibiotics will then be discussed by a representative of Bristol Laboratories, Syracuse. After lunch, Dr. Philip Rusden, Bartlett Tree Re-

## FOREST SEEDLINGS

| APRICOT  |       | Per 100 | Per 1000 |
|--|-------|---------|----------|
| 2 to 3 ft.   | ..... | \$7.00  | \$60.00  |
| 18 to 24 ins.  | ..... | 5.00    | 40.00    |
| ASH, GREEN   |       | Per 100 | Per 1000 |
| 2 to 3 ft.   | ..... | 3.50    | 30.00    |
| 18 to 24 ins.  | ..... | 2.50    | 20.00    |
| 12 to 18 ins.  | ..... | 1.60    | 15.00    |
| 6 to 12 ins.   | ..... | 1.20    | 10.00    |
| BOX ELDER  |       | Per 100 | Per 1000 |
| 2 to 3 ft.   | ..... | 3.50    | 30.00    |
| 18 to 24 ins.  | ..... | 2.50    | 20.00    |
| 12 to 18 ins.  | ..... | 1.60    | 15.00    |
| 6 to 12 ins.   | ..... | 1.20    | 10.00    |
| BUCKTHORN, DAHURIAN  |       | Per 100 | Per 1000 |
| 18 to 24 ins.  | ..... | 5.00    | 45.00    |
| 12 to 18 ins.  | ..... | 4.00    | 35.00    |
| 6 to 12 ins.   | ..... | 2.50    | 20.00    |
| CARAGANA ARBORESCENS   |       | Per 100 | Per 1000 |
| 3 to 4 ft.   | ..... | 8.00    | 75.00    |
| 2 to 3 ft.   | ..... | 5.50    | 50.00    |
| 18 to 24 ins.  | ..... | 4.00    | 35.00    |
| 12 to 18 ins.  | ..... | 3.00    | 25.00    |
| 6 to 12 ins.   | ..... | 2.00    | 15.00    |
| CHERRY, WILD BLACK   |       | Per 100 | Per 1000 |
| 2 to 3 ft.   | ..... | 5.50    | 50.00    |
| 18 to 24 ins.  | ..... | 4.00    | 35.00    |
| 12 to 18 ins.  | ..... | 2.90    | 25.00    |
| 6 to 12 ins.   | ..... | 2.00    | 18.00    |
| CORNUS STOLONIFERA<br>(Red Osier Dogwood)  |       | Per 100 | Per 1000 |
| 18 to 24 ins.  | ..... | 6.00    | 55.00    |
| 12 to 18 ins.  | ..... | 5.00    | 45.00    |
| 6 to 12 ins.   | ..... | 3.00    | 25.00    |
| CORYLUS AMERICANA<br>(Hazelnut)  |       | Per 100 | Per 1000 |
| 2 to 3 ft.   | ..... | 6.50    | .....    |
| 18 to 24 ins.  | ..... | 5.00    | 45.00    |
| ELM, AMERICAN  |       | Per 100 | Per 1000 |
| 2 to 3 ft.   | ..... | 3.50    | 30.00    |
| 18 to 24 ins.  | ..... | 2.60    | 22.00    |
| 12 to 18 ins.  | ..... | 1.90    | 16.00    |
| 6 to 12 ins.   | ..... | 1.20    | 10.00    |
| ELM, CHINESE   |       | Per 100 | Per 1000 |
| 3 to 4 ft.   | ..... | 7.50    | 65.00    |
| 2 to 3 ft.   | ..... | 4.50    | 40.00    |
| 18 to 24 ins.  | ..... | 2.90    | 25.00    |
| 12 to 18 ins.  | ..... | 2.10    | 18.00    |
| 6 to 12 ins.   | ..... | 1.20    | 10.00    |
| HONEYSUCKLE  |       | Per 100 | Per 1000 |
| 2 to 3 ft.   | ..... | 14.00   | 120.00   |
| 18 to 24 ins.  | ..... | 11.00   | 100.00   |
| 9 to 12 ins.   | ..... | 5.60    | 50.00    |
| 6 to 9 ins.  | ..... | 3.50    | 30.00    |
| LOCUST, BLACK  |       | Per 100 | Per 1000 |
| 5 to 6 ft.   | ..... | 8.00    | 75.00    |
| 4 to 5 ft.   | ..... | 6.50    | 60.00    |
| 3 to 4 ft.   | ..... | 4.50    | 40.00    |
| 2 to 3 ft.   | ..... | 3.20    | 28.00    |
| 18 to 24 ins.  | ..... | 2.40    | 20.00    |
| 12 to 18 ins.  | ..... | 1.70    | 14.00    |
| 6 to 12 ins.   | ..... | 1.00    | 9.00     |
| LOCUST, THORNLESS HONEY  |       | Per 100 | Per 1000 |
| Very fine stock, 100 per cent thornless, excellent lining-out and understock material. |       |         |          |
| 3 to 4 ft.   | ..... | 8.00    | 70.00    |
| 2 to 3 ft.   | ..... | 5.00    | 45.00    |
| 18 to 24 ins.  | ..... | 3.50    | 30.00    |
| 12 to 18 ins.  | ..... | 2.40    | 20.00    |
| 6 to 12 ins.   | ..... | 1.70    | 14.00    |
| 3/16-in. cal. and up understock  | ..... | 2.00    | 18.00    |
| MAPLE, SILVER  |       | Per 100 | Per 1000 |
| 2 to 3 ft.   | ..... | 5.50    | 50.00    |
| 18 to 24 ins.  | ..... | 4.00    | 35.00    |
| 12 to 18 ins.  | ..... | 1.70    | 14.00    |
| OAK, BUR   |       | Per 100 | Per 1000 |
| 18 to 24 ins.  | ..... | 12.00   | 100.00   |
| 12 to 18 ins.  | ..... | 8.50    | 75.00    |
| 6 to 12 ins.   | ..... | 6.50    | 55.00    |
| OLIVE, RUSSIAN   |       | Per 100 | Per 1000 |
| 3 to 4 ft.   | ..... | 8.00    | 75.00    |
| 2 to 3 ft.   | ..... | 6.00    | 55.00    |
| 18 to 24 ins.  | ..... | 4.50    | 40.00    |
| 12 to 18 ins.  | ..... | 3.00    | 25.00    |
| 6 to 12 ins.   | ..... | 2.00    | 18.00    |
| OSAGE ORANGE   |       | Per 100 | Per 1000 |
| 18 to 24 ins.  | ..... | 2.40    | 20.00    |
| 12 to 18 ins.  | ..... | 1.80    | 15.00    |
| 6 to 12 ins.   | ..... | 1.20    | 10.00    |
| PHYSCARPUS OPULIFOLIUS   |       | Per 100 | Per 1000 |
| 18 to 24 ins.  | ..... | 6.00    | 55.00    |
| 12 to 18 ins.  | ..... | 5.00    | 45.00    |
| 6 to 12 ins.   | ..... | 3.50    | 30.00    |
| PRUNUS BESSEY<br>(Western Sand Cherry)   |       | Per 100 | Per 1000 |
| 2 to 3 ft.   | ..... | 6.50    | 60.00    |
| 18 to 24 ins.  | ..... | 5.50    | 50.00    |
| 12 to 18 ins.  | ..... | 4.50    | 40.00    |
| 6 to 12 ins.   | ..... | 3.00    | 25.00    |
| PRUNUS PADUS COMMUTATA<br>(Mayday)   |       | Per 100 | Per 1000 |
| 18 to 24 ins.  | ..... | 7.00    | 60.00    |
| 12 to 18 ins.  | ..... | 5.50    | 50.00    |
| 6 to 12 ins.   | ..... | 4.00    | 35.00    |
| RIBES ODORATUM   |       | Per 100 | Per 1000 |
| 6 to 12 ins.   | ..... | 3.50    | 30.00    |
| ROSA MULTIFLORA, thorny  |       | Per 100 | Per 1000 |
| 1/4-in. cal. and up  | ..... | 3.50    | 30.00    |
| No. 1, 3/16 to 1/2-in. cal.  | ..... | 2.50    | 22.00    |
| No. 2, 2/16 to 3/16-in. cal.   | ..... | 2.00    | 18.00    |
| 3 to 15 ins.   | ..... | 1.50    | 12.50    |
| 6 to 10 ins.   | ..... | 1.20    | 10.00    |
| TAMARIX HISPIDA<br>C., 2-yr., cutbacks.  |       | Per 100 | Per 1000 |
| 24 to 36 ins.  | ..... | 20.00   | 150.00   |
| WALNUT, BLACK  |       | Per 100 | Per 1000 |
| 12 to 18 ins.  | ..... | 3.50    | 30.00    |
| 6 to 12 ins.   | ..... | 2.40    | 20.00    |

### SHADE TREES AND ORNAMENTAL TREES

| CRAB APPLE, HOPE  |       | Per 10  | Per 100  |
|---|-------|---------|----------|
| 4 to 5 ft.  | ..... | \$ 9.00 | \$ 85.00 |
| 3 to 4 ft.  | ..... | 7.00    | 65.00    |
| CRAB APPLE, RED SILVER  |       | Per 10  | Per 100  |
| 5 to 6 ft.  | ..... | 15.00   | 135.00   |
| 4 to 5 ft.  | ..... | 12.00   | 110.00   |
| ELM, AMERICAN   |       | Per 10  | Per 100  |
| 1 1/4 to 1 1/2 in. cal.   | ..... | 22.00   | 200.00   |
| 8 to 10 ft.   | ..... | 16.50   | 150.00   |
| 6 to 8 ft.  | ..... | 11.00   | 100.00   |
| 5 to 6 ft.  | ..... | 7.00    | 65.00    |
| 4 to 5 ft.  | ..... | 5.00    | 45.00    |
| ELM, MOLINE   |       | Per 10  | Per 100  |
| 5 to 8 ft.  | ..... | 15.00   | 135.00   |
| LINDEN, REDMOND   |       | Per 10  | Per 100  |
| In our opinion this is the most outstanding budded linden on the market. We have grown and tested this tree many years. It grows fairly fast, has a spread similar to pin oak. The new wood growth turns red. Has never been damaged from wind, sleet, snow, insect pests or disease. Excellent shade for lawn, park and street planting. |       |         |          |
| 5 to 6 ft.  | ..... | \$16.50 | \$150.00 |
| 4 to 5 ft.  | ..... | 11.00   | 90.00    |
| 3 to 4 ft.  | ..... | 8.50    | 75.00    |
| LINDEN, AMERICAN  |       | Per 10  | Per 100  |
| 6 to 8 ft.  | ..... | \$22.00 | \$200.00 |
| 5 to 6 ft.  | ..... | 12.00   | 110.00   |
| MAPLE, SILVER   |       | Per 10  | Per 100  |
| 8 to 10 ft.   | ..... | 19.00   | 175.00   |
| 6 to 8 ft.  | ..... | 14.00   | 125.00   |
| 5 to 6 ft.  | ..... | 8.00    | 75.00    |
| OUR ROOT-PRUNED OAKS ARE EXCELLENT FOR SMALL SHADE AND LINING-OUT STOCK.  |       | Per 10  | Per 100  |
| OAK, BUR  |       | Per 10  | Per 100  |
| 5 to 6 ft., root-pruned   | ..... | \$6.50  | \$60.00  |
| 4 to 5 ft., root-pruned   | ..... | 4.50    | 40.00    |
| 3 to 4 ft., root-pruned   | ..... | 3.00    | 25.00    |
| OAK, RED  |       | Per 10  | Per 100  |
| 4 to 5 ft., root-pruned   | ..... | 4.50    | 40.00    |
| 3 to 4 ft., root-pruned   | ..... | 3.00    | 25.00    |

## PLUMFIELD NURSERIES, INC.

P. O. Box 7

Phone 581

FREMONT, NEB.

### REMEMBER SHERMAN'S for ...

Alpine Currant  
Hydrangea P. G.  
French Lilacs  
Snowball  
Shade Trees  
Evergreens  
Philox  
Peonies  
Plum Seedlings  
Lining-out Stock

Let us quote you on your requirements.

SHERMAN NURSERY CO.

CHARLES CITY, IA.

## ORNAMENTALS

### TREES SHRUBS EVERGREENS

Wholesale growers of a general assortment for the best landscape plantings.

BRYANT'S NURSERIES

Princeton, Illinois



## EUONYMUS AND COTONEASTER

Particularly nice plants which benefited by our 15.2 inches of rainfall in June, July and August.

Each at 100 rate  
Each at 1000 rate

### EUONYMUS ALATUS COMPACTUS

|                              |        |        |
|------------------------------|--------|--------|
| 2-yr., pots .....            | \$0.22 | \$0.20 |
| 4-yr., T., 8 to 10 ins....   | .40    | .35    |
| 4-yr., T., 10 to 15 ins....  | .45    | .40    |
| *5-yr., T., 15 to 18 ins.... | .70    | .65    |

### EUONYMUS RADICANS ERECTUS

|                              |     |     |
|------------------------------|-----|-----|
| 2-in. pots .....             | .17 | .15 |
| *3-yr., T., 12 to 15 ins.... | .45 | .40 |
| *3-yr., T., 15 to 18 ins.... | .65 | .60 |

### COTONEASTER APICULATA

|                        |     |     |
|------------------------|-----|-----|
| 2-in. pots .....       | .25 | .22 |
| 2-yr., T., heavy.....  | .45 | .40 |
| *3-yr., T., heavy..... | .60 | .55 |

\*The largest of these varieties are suitable for Cloverset potting or cans.

Quick shipment late winter or spring. Bare-root. Minimum order 50 plants of a variety, 100 plants total. Usual catalog terms.

## BERRYHILL NURSERY CO.

P. O. Box 696 SPRINGFIELD, O.

## LINING-OUT STOCK

Lining-out stock, grafts as well as field-grown stock.

### SPECIAL ITEM:

**Euonymus Radicans Erectus**

15 to 18 ins., heavy bedders . . 45¢ each

## BURTON'S HILLTOP NURSERIES CASSTOWN, OHIO

Over 100 Years' Nursery Experience

## ILGENFRITZ NURSERIES, Inc.

The Monroe Nursery  
MONROE, MICHIGAN

GET THE BEST

BUY ILGENFRITZ

## TEUCRIUM CHAMAEDRYS

(Germander)

A shrublike, evergreen, edging plant of moderate growth. It has glossy green foliage resembling dwarf boxwood and may be clipped to suit any height up to 12 ins.

Heavy, 1-yr. plants—\$18.00 per 100;  
\$170.00 per 1000

KINGWOOD NURSERIES

MENTOR, O.

search Laboratories, will speak on chemotherapy, and an address on herbicides will be heard. The meeting will be concluded with a general discussion.

## TREE-UTILITY CONFERENCE

Means of correlating installations of street lights, overhead lines and trees along city streets will be discussed at the street tree and utility conference, to be held March 3 and 4, at the Wade Park Manor hotel, Cleveland, O. Sponsored by the National Shade Tree Conference, the Illuminating Engineering Society and the Edison Electric Institute, the meeting will stress cooperation, so that conflict in installations will be reduced to a minimum, and beauty and utility will be raised to a high peak of efficiency and economy.

Addresses on the opening day include one by Charles Young, Baltimore city forester, on street trees; by D. M. Baldwin, National Safety Council, Chicago, on street lighting, and by G. E. Dean, Public Service Electric & Gas Co., Newark, N. J., on overhead lines on public streets.

After luncheon, a talk on the design aspects of street lighting will be given by W. H. Edman, Holophane Co., Newark, O., and H. W. Osborne, Buffalo, N. Y. Other discussions in the design category are on power lines, by E. V. Sayles, Consumers Power Co., Jackson, Mich.; telephone lines, by Forrest Woodland, American Telephone & Telegraph Co., New York, and sub-surface problems of trees and utility structures, by S. S. Baxter, Philadelphia, Pa. The first day's program will be concluded with an address on the "Selection and Use of Trees to Minimize Public Area Conflicts," by E. H. Scanlon, chairman of the shade tree selection committee of the National Shade Tree Conference.

Events of the second day will include discussions on street lights, overhead lines and street trees by panels of speakers, with E. H. Scanlon as chairman. The meeting will be concluded with a conference summary, by Prof. H. O. Perkins, University of Connecticut, Storrs, Conn.

The registration fee of \$12.50, which includes the banquet fee and a copy of the conference proceedings, should be sent to E. H. Scanlon, 7621 Lewis road, Olmsted Falls, O., and the hotel reservations should be made directly with the Wade Park Manor hotel.

# JUST A REMINDER

IT'S

**JANUARY 23 to 25, 1955**

Southern Nurserymen's  
Association

## TRADE MEET

Hotel Roosevelt

Jacksonville, Fla.

## SPECIAL NOTICE!

We have a few hundred of each of the following native-grown, well-headed shade trees in **Green Ash, White Birch, Rubrum Maple, Pin Oak and Sweet Gum.**

|  | Each    |
|--|---------|
| 5 to 6 ft., B.R.....                     | \$ 1.15 |
| 6 to 8 ft., B.R.....                     | 1.40    |
| 8 to 10 ft., B.R.....                    | 4.00    |
| 1 to 1 1/2-in. cal., B&B.....            | 6.00    |
| 1 1/2 to 2-in. cal., B&B.....            | 7.50    |
| 2 to 2 1/2-in. cal., B&B.....            | 9.50    |
| 2 1/2 to 3-in. cal., B&B.....            | 12.50   |
| 3-in. cal. and up, (in lots of 100)..... | 15.00   |

These prices are all F.O.B. shipping point.

A few hundred 4 and 5-year-old **Apple** trees in leading varieties, bare root.

|                     | Each   |
|---------------------|--------|
| 1-in. cal. ....     | \$0.90 |
| 1 1/4-in. cal. .... | 1.25   |
| 1 1/2-in. cal. .... | 1.50   |
| 2-in. cal. ....     | 2.50   |

**Apple** bench root grafts, P. R., \$52.50 per 1000; \$50.00 per 1000 in lots of 5000.

**Flowering Crab Apple**, bench root grafts, P. R., \$7.50 per 100.

**French Lilac**, bench root grafts, \$15.00 per 100.

**Multiflora Roses**—50,000 3-year-old, extra-heavy, \$50.00 per 1000.

A general line of grafted **Junipers** in 4 to 8 ft., shrubs, etc.

Contact our representative, John M. Graves, at the convention, or write:

**EGYPTIAN NURSERY & LANDSCAPE CO.**  
FARINA, ILL.  
Day Phone 3551 Night Phone 2641

## DWARF BLUE-LEAVED ARCTIC WILLOW

(Salix Purpurea Nana)

Beautiful, new hedging shrub for all northern localities. Will thrive in practically any type of soil. Has fine-cut, bluish leaf and makes spectacular low-to-medium hedge. Should have full sun to develop to maximum attractiveness. 9 to 12 ins., 1-yr. stock, \$12.00 per 100. \$100.00 per 1000.

**BEARDSLEE NURSERY PERRY, O.**

**LILACS FOR AMERICA**, by Lilac Survey Committee. 30 species, 800 varieties. 48 p. \$1.00 postpaid.  
American Nurseryman Chicago 4, Ill.

## WILLIAMSBURG SYMPOSIUM

Colorful tours through Williamsburg's famous gardens, tours through scenic Gloucester county and an evening at the delightful candlelight concert at the Governor's palace are on the program for the annual Williamsburg Garden Symposium, to be held at Williamsburg, Va. In its 18th-century attire, the pre-Revolutionary capital will be the setting for garden lovers and horticulturists March 9 to 11 and March 16 to 18.

Based on the theme, "Future Garden Trends," the first session will include discussions on what is next in garden design, what garden designers of today can learn from the past, what is new in soils and new discoveries in horticulture.

The second session will have the theme, "Living with Gardens," and will feature such topics as the garden as part of the home, plants for the garden pool and the care and feeding of lawns, trees and shrubs.

Both programs will include clinics on garden care and plant materials. An informal reception for early arrivals will be held at the Williamsburg Inn the evening preceding the beginning of each session.

POST-CONVENTION TRIP  
UP SAGUENAY RIVER

Upon the conclusion of the convention of the American Association of Nurserymen at Toronto, Ont., July 10 to 14, an inland waterways cruise to the Saguenay river and return has been planned by W. J. Smart, chairman of the A. A. N. transportation committee. This is a popular cruise on a boat having excellent accommodations. Mr. Smart has reserved space for 150 persons and already 60 have made application. Hence any nurserymen interested in making the trip should promptly address W. J. Smart, D. Hill Nursery Co., Dundee, Ill.

The party will leave the Union station, Toronto, at 9:15 a. m., Friday, July 15, and arrive at Montreal at 4:20 p. m. Parlor car seats and luncheon have been provided on the train. At Montreal the party will transfer to the Mount Royal hotel, where rooms with bath have been reserved. Dinner and breakfast will be served at the hotel. At 10 a. m., Saturday, July 16, the party will make a 3-hour sightseeing tour of Montreal. The party may board ship earlier, but sailing is set at 6:45 p. m. and dinner will be served aboard ship.

Sunday, July 17, the party will

## NURSERY LINERS

## Christmas Tree Stock

|  | Per<br>100 | Per<br>1000 | Per<br>10,000 |
|--|------------|-------------|---------------|
| Colorado Blue Spruce, 3-2, 6 to 9 ins....              | \$18.00    | \$150.00    | ....          |
| Colorado Blue Spruce, 3-2, 4 to 6 ins....              | 12.00      | 80.00       | ....          |
| Colorado Blue Spruce, 3-0, 3 to 5 ins....              | 6.00       | 30.00       | ....          |
| Colorado Blue Spruce, 3-0, 5 to 10 ins....             | 10.00      | 65.00       | ....          |
| White Spruce, 3-0, 3 to 5 ins.....                     | 4.00       | 20.00       | ....          |
| White Spruce, 3-0, 5 to 10 ins.....                    | 8.00       | 40.00       | ....          |
| Norway Spruce, 3-0, 3 to 5 ins.....                    | 4.00       | 20.00       | ....          |
| *Riga Scotch Pine, 2-0, 3 1/2 to 8 ins....             | 7.50       | 26.00       | \$24.00       |
| *Riga Scotch Pine, 2-0, 2 to 3 1/2 ins....             | 3.00       | 14.00       | 12.00         |
| *Riga Scotch Pine, 2-0, 6 to 10 ins....                | 8.00       | 36.00       | 35.00         |
| *Riga Scotch Pine, 2-0, 3 to 6 ins....                 | 5.00       | 22.00       | 21.00         |
| Austrian Pine, 2-0, 3 to 6 ins.....                    | 6.00       | 25.00       | 24.00         |
| Austrian Pine, 2-2, 8 to 12 ins.....                   | 12.00      | 90.00       | ....          |
| Mugho Pine,<br>3-0, top sheared to about 3 ins.....    | 5.00       | 30.00       | 25.00         |
| Douglas Fir, Rocky Mt. type,<br>2-0, 3 to 8 ins.....   | 6.00       | 28.00       | 25.00         |
| Douglas Fir,<br>taxifolia glauca, 2-2, 6 to 9 ins..... | 10.00      | 75.00       | ....          |
| taxifolia glauca, 2-2, 9 to 12 ins.....                | 15.00      | 125.00      | ....          |

TERMS: Cash with order please; or 25 per cent deposit, balance before shipment.

25 at 100 rate, 250 at 1000 rate; all seedlings in multiples of 50, all transplants in multiples of 10.

Minimum order \$10.00. Packing charge included in price of trees.

\*Prices available on request for 50,000 or more.

## MATTHEWS NURSERY

HARBOR SPRINGS, MICH.

Telephone 123 or 732

## QUALITY LINERS

JUNIPERUS  
Glauca hetzi  
Andorra  
Vonechron

|                         | Each<br>per 100 | Each<br>per 1000 |
|-------------------------|-----------------|------------------|
| 4-yr., 6 to 9 ins.....  | \$0.45          | \$0.40           |
| 4-yr., 9 to 12 ins..... | .55             | .50              |

## TAXUS

Cuspidata, 6 to 9 ins.  
and 9 to 12 ins.

Thayeri, 6 to 9 ins.

Hatfieldi, 6 to 9 ins.

5-yr., 6 to 9 ins..... .50 .45

5-yr., 9 to 12 ins..... .65 .60

No packing charge.



P. O. Box 1747

MILWAUKEE, WIS.

LINING-OUT and  
FINISHED STOCK

Ask for List

THE  
COTTAGE  
GARDENS

Our 31st Year

Nick I. W. Kriek—Harold E. Hicks  
LANSING 15, MICH.

## JEWELL ORNAMENTALS

### FLOWERING CRAB APPLE

- Hopa, 4 to 5 ft.  
Red Silver, 5 to 6 ft.

### ORNAMENTAL PLUM

- Prunus Newport, 4 to 5 ft.  
Prunus tomentosa, 4 to 5 ft.

### ORNAMENTAL TREES

- Cut-leaved Birch, 8 to 10 ft.  
(2-yr. transplants in our fields)  
Chinese Elm, 8 to 10 ft.  
Thornless Honey Locust, 5 to 8 ft.  
Silver Maple, 1 1/4 to 1 1/2-in. cal.  
European Mountain Ash, 6 to 8 ft.  
Lombardy Poplar, 8 to 10 ft.

### ORNAMENTAL SHRUBS

- Barberry, Red-leaved, 12 to 15 ins.  
Buddleia No. 1  
Caryopteris No. 1  
Cotoneaster divaricata, 2 to 3 ft.  
Deutzia gracilis, 9 to 12 ins.  
Forsythia fortunei, 2 to 3 ft.  
Forsythia ovata, 2 to 3 ft.  
Forsythia spectabilis, 3 to 4 ft.  
Honeysuckle, Red Tatarian, 3 to 4 ft.  
Honeysuckle, White Tatarian,  
3 to 4 ft.  
Honeysuckle, Zabeli, 2 to 3 ft.  
Hydrangea A. G., 2 to 3 ft.  
Kolkwitzia amabilis, 18 to 24 ins.  
Lilac, Persian Purple, 2 to 3 ft.  
Philadelphus Bouquet Blanc,  
18 to 24 ins.  
Philadelphus Minnesota Snowflake,  
3 to 4 ft. (Plant Patent No. 538)  
Philadelphus virginialis, 12 to 18 ins.  
Privet Iodense, 9 to 12 ins.  
Spiraea froebelii, 24 to 30 ins.  
Spiraea vanhouttei, 2 to 3 ft.  
Weigela Bristol Ruby, 3 to 4 ft.  
(Plant Patent No. 492)  
Weigela rosea, 3 to 4 ft.

All of above stock available for shipment. We shall appreciate your inquiries.

**JEWELL NURSERIES, INC.**  
Box 457 LAKE CITY, MINN.

arrive at Quebec in early morning. After luncheon on board there will be a 1 1/2-hour call at Murray bay and then a sail down the river to Tadoussac for a 1 1/2-hour call. At sunset the boat will travel up the Saguenay river to Bagotville, in HaHa bay, where the ship will moor for the night while the party goes ashore for an evening of exploring. All meals on July 17 will be served aboard ship.

Monday, July 18, the boat will return down the Saguenay, reaching Quebec at 6:45 p. m. All three meals will be served aboard ship. Overnight stay will be at the Chateau Frontenac. The evening is open for sightseeing.

Tuesday, July 19, special cars will be taken to the "Shrine of Miracles," at Ste. Anne de Beaupre, and Montmorency falls, higher than Niagara. After luncheon at the hotel, historic points of interest will be visited. Dinner will be on board ship, which sails at 7:15 p. m.

Wednesday, July 20, the party will arrive at Montreal at 7 a. m., transferring to the railroad station for departure at 8:10 a. m. and arriving at 3:15 p. m. at Toronto, where the tour ends.

The approximate cost for the entire trip is \$180 per person in room with private toilet on the steamer.

### CONSTANT MIST

[Continued from page 14]

lenges can be met, with an increase in the percentage of rooted, band-bound cuttings ready for the field.

Our propagators are sold on outdoor mist to the point that they are now using it not only for rooting cuttings, but also for modifying the atmosphere over evergreen heel beds, newly potted plants and other plants in critical condition. In fact, it is believed this usage of mist as a climate modifier may well outdistance its use in plant propagation per se. Unquestionably the theory back of constant mist outdoors is sound, as the energy given off through sunlight for the plants' metabolism, plus the constant moisture, seems to be the two primary requisites for plant growth and plant rooting. These tests duly justify outdoor constant mist.

THE historic Roger Williams elm, a victim of Dutch elm disease, will be cut down and burned, after surviving the elements some 300 years. The huge elm, more than 15 feet in circumference, stands in Prospect park, Providence, R. I.

## LANDSCAPE MATERIAL

|   | Each             |
|---|------------------|
| Pinus Resinosa (Red Pine),<br>first class for landscape projects. |                  |
| 5 to 6 ft., B&B.....  | \$6.50           |
| 6 to 7 ft., B&B.....  | 7.50             |
| 7 to 8 ft., B&B.....  | 9.00             |
| Red Pine, Christmas trees,<br>Cut 5 1/2 to 7 ft.....              | \$1.00 to \$2.50 |
| Tsuga Canadensis (Canadian Hemlock),<br>heavy sheared specimens.  |                  |
| 3 1/2 to 4 ft., B&B.....  | 5.50             |
| 4 to 4 1/2 ft., B&B.....  | 6.50             |
| Cornus Florida (White-flowering<br>Dogwood)                       |                  |
| 3 to 4 ft., B&B.....  | 2.50             |
| 4 to 5 ft., B&B.....  | 3.00             |
| 5 to 6 ft., B&B.....  | 3.50             |
| 6 to 7 ft., B&B.....  | 4.50             |
| 7 to 8 ft., B&B.....  | 6.50             |
| 8 to 9 ft., B&B.....  | 7.50             |
| Multiple stems add 10 per cent.                                   |                  |

### WADE & GATTON NURSERY

BELLVILLE, O.  
Phone Butler 2-3191 or 2-3835

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**FLOWERING CRABS  
ORNAMENTAL TREES  
and SHRUBS**  
Fruit Trees and Berries  
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NURSERY COMPANY  
SINCE 1872  
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### NORTHERN-GROWN STOCK

Evergreen Liners  
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Fruit Trees  
French Lilacs  
Philadelphus Minnesota Snowflake  
(Plant Patent No. 538).  
Send for list.

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**Stock that is hardy.**  
WHOLESALE  
**SUMMIT NURSERIES**  
STILLWATER, MINN.



**STELEMASTER STRAWBERRY**

Release of the strawberry variety Stelemaster has been announced in a joint statement by Dr. I. C. Haut, director, Maryland experiment station, and Dr. F. P. Cullinan, bureau of plant industry, United States Department of Agriculture, Beltsville, Md. The strawberry, formerly tested as Md-US-2159, originated as a seedling from the cross of Fairland x Md-683. It was first selected in the 1950 fruiting season at the University of Maryland research farm, Salisbury.

The ripening season of Stelemaster is about the same as Blakemore and five to seven days earlier than Temple. The berries are medium in size, generally uniform and smooth, medium red in color with a glossy surface. The flesh is light red, firm and juicy, with the flavor mildly subacid. It is not satisfactory for frozen pack.

The Stelemaster plants are vigorous, productive and highly resistant to all the races of red stele now known in the eastern United States. The leaves are resistant to scorch, but are somewhat subject to leaf spot.

Stelemaster has been tested most extensively in the Pittsville, Md., district, where red stele is most prevalent; it has shown multiple resistance to red stele. It appears best adapted to moist soils.

A limited number of plants are available from cooperating nurseries for 1955 planting. Sources of plants can be obtained by contacting either the botany department, Maryland agricultural experiment station, College Park, Md., or the horticultural crops research branch, plant industry station, Beltsville, Md.

IN HONOR of the late W. J. Hughes, his family recently donated \$1,000 to Iowa State College, the interest from which is to be used to establish an annual award to be given to an outstanding senior student in horticulture. The student will be selected by the faculty on the basis of scholarship, leadership and character.

THE Pacific Flower Exposition-San Diego, announces a flower show on March 3 to 6. If the show is successful, it will be an annual event. Allan D. Sukor, Broadway Florists, San Diego, Calif., is publicity man.

A NEW nursery and farming business is Law's Valley View Nurseries, Inc., Denmark, Minn. Incorporators are Kenneth B. Law, Gertrude A. Law and James B. Law.

**Special Prices to the Trade****VIBURNUM BURKWOODI**

(Gardenia-scented Snowball)

Fall or spring delivery, F.O.B. Dayton, O. Own-root — Lining-out size in plant bands.

|                |                |                 |
|----------------|----------------|-----------------|
| Per 50         | Per 100        | Per 1000        |
| <b>\$15.00</b> | <b>\$25.00</b> | <b>\$225.00</b> |

|                       |                |                 |
|-----------------------|----------------|-----------------|
|                       | Per 10         | Per 100         |
| 18 to 24 ins., B.R.   | <b>\$10.00</b> | <b>\$ 85.00</b> |
| 18 to 24 ins., balled | <b>15.00</b>   | <b>135.00</b>   |
| 2 to 2½ ft., balled   | <b>20.00</b>   | <b>185.00</b>   |
| 2½ to 3 ft., balled   | <b>27.50</b>   | <b>250.00</b>   |

**VIBURNUM CHENAULTI**

More evergreen and compact growing, same flowers as Burkwoodi. Own-root—Lining-out size in plant bands.

|                |                |                 |
|----------------|----------------|-----------------|
| Per 50         | Per 100        | Per 1000        |
| <b>\$17.50</b> | <b>\$30.00</b> | <b>\$250.00</b> |

|                       |                |                 |
|-----------------------|----------------|-----------------|
|                       | Per 10         | Per 100         |
| 18 to 24 ins., B.R.   | <b>\$12.50</b> | <b>\$110.00</b> |
| 18 to 24 ins., balled | <b>17.50</b>   | <b>160.00</b>   |
| 2 to 2½ ft., balled   | <b>22.50</b>   | <b>210.00</b>   |
| 2½ to 3 ft., balled   | <b>30.00</b>   | <b>275.00</b>   |

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**NEW OR USED****TYPEWRITERS, ADDING MACHINES, CALCULATORS, ETC.**

To Nurserymen Only

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**EVERGREEN NURSERIES**

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DUBUQUE, IA.

**"CRIMSON PYGMY" DWARF RED BARBERRY**

The new, sensational shrub for ranch-house landscaping, dwarf hedges, potting and B&B sales.

|                            |                   |                   |                    |
|----------------------------|-------------------|-------------------|--------------------|
|                            | 10 rate           | 100 rate          | 1000 rate          |
| L.O. size from 2¼-in. pots | <b>\$0.35 ea.</b> | <b>\$0.25 ea.</b> | <b>\$0.22½ ea.</b> |
| 2-yr., field plants        | <b>.75 ea.</b>    | <b>.60 ea.</b>    | <b>.50 ea.</b>     |

**THE COTTAGE GARDENS****LANSING 15, MICH.****VOGE NURSERY****New Lebanon, Ohio**

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FINISHED STOCK

**CORKSCREW TREE**

(Sally Matsudana Tortuosa)

Contorted Hankow Willow or Corkscrew Tree. Very odd appearing horticultural curiosity. Branches grow upright with a corkscrew twist. Compact growing large shrub or small tree. Ultimate height 12 to 15 ft. Small trees approximately 3 to 4 ft., \$2.50 each.  
**BEARDSLEE NURSERY PERRY, O.**

**LYTHRUM**

Heavy, No. 1 field-grown plants.

|                 |                |                 |
|-----------------|----------------|-----------------|
|                 | Per 100        | Per 1000        |
| Dropmore Purple | <b>\$12.50</b> | <b>\$115.00</b> |
| Morden's Pink   | <b>15.00</b>   | <b>140.00</b>   |
| Robert          | <b>22.50</b>   | <b>210.00</b>   |

Write for complete trade list.

**KINGWOOD NURSERIES****MENTOR, O.**

# Prices and Profits

*Comments on Business Management in the Nursery*

*By John J. Pinney*

## PRICING BY PRODUCERS

During the past season we had occasion to buy a spray gun for spraying nursery stock that was too tall to be straddled with regular equipment. It consisted of a piece of aluminum pipe, an inch or so in diameter, with a cast aluminum handle, a valve and a nozzle head. When I saw the price, I could scarcely believe my eyes because it was at least four or five times as much as I thought it would be. It was an assembled job and the materials used certainly were worth only a small fraction of the selling price.

Then I was reminded of what a manufacturer friend told me a few years ago. He said that he always figured the retail price should be at least four times the "bench cost," which I suppose is the cost of manufacturing. He explained that, while the markup seemed high, it was no more than enough to take care of the marketing expenses and leave a reasonable profit.

This would be a good time to point out a fact that many nurserymen may never have thought about. It is this: It usually is customary for the manufacturer of a product to establish, or at least suggest, the retail price and do the advertising and other promotion necessary to acquaint the public with his product. The object, of course, is to create a demand so that the dealer will want to stock it.

The advertising done by the retailer merely supplements that of the manufacturer. The dealer announces that he has a certain product in stock, a product with which the consumer is already familiar through the advertising of the manufacturer in newspapers and magazines, on the radio, etc.

Thumb through the pages of your favorite magazine or scan the pages of your daily newspaper and you will find clothing, detergents, beauty aids, shoes, appliances, automobiles, food, furniture, cigarettes—all advertised by the manufacturers.

A well-known example is the product of the Eastman Kodak Co. Everyone knows the name Kodak. The dealer does not have to spend any money explaining about the Eastman cameras. Eastman has done that for him. What advertising the

dealer does is purely supplementary.

The manufacturer usually establishes the retail price. Sometimes the retail price is fair-traded; then the dealer must sell it at that price. The retail price may merely be suggested, but the manufacturer exerts all the pressure he can on the dealer to maintain his retail price. The dealer buys the manufactured product at a discount from the retail price. There is little temptation for him to cut the price which the manufacturer has established.

With the exception of some patented plants, which I shall refer to later, the nursery business is run exactly the opposite of the manufacturing business. The wholesale nurseryman (corresponding to the manu-

facturer) does no consumer advertising. He advertises in the trade paper to tell the retail nurserymen that he has certain plants or classes of plants for sale. Sometimes he will extend himself a little and give out with information on something new or different, but usually he lets the retailer find out for himself about such things.

The wholesale nurseryman establishes the wholesale price, the price that the dealer pays. There is no direct relationship between the wholesale cost and the retail price. Setting the retail price is the responsibility of the dealer.

Sometimes the dealer sets his retail price too low. Finding he cannot make any money, he puts pressure on the wholesaler to reduce the price, and then neither of them makes any money. This condition is widespread in the nursery business.

Every dealer has a different idea as to the proper markup. The result is a great variation in the price of a given item. It is no wonder the

**UPRIGHT EUONYMUS RADICANS**  
(SARCOXIE)

**It's NEW**

- Hardy
- Compact
- Evergreen
- Rapid Grower
- Moderately Priced
- Sells Itself

Ask for full color illustration and description.




Natural Growth  
Not Sheared

Trained as a Column,  
Lightly Sheared

**UPRIGHT EUONYMUS RADICANS (SARCOXIE)**

Each

|               |        |
|---------------|--------|
| 12 to 15 ins. | \$1.50 |
| 15 to 18 ins. | 1.75   |
| 18 to 24 ins. | 2.25   |
| 24 to 30 ins. | 3.00   |
| 30 to 36 ins. | 3.50   |

**Trained Specimens**

|               |      |
|---------------|------|
| 30 to 36 ins. | 4.00 |
| 36 to 42 ins. | 5.00 |
| 42 to 48 ins. | 6.00 |

Above prices B&B. Prices of bare root on request.

**STURDY 2-YR. OUTDOOR-GROWN LINERS**

AS SHIPPED Per 100 Per 1000

|               |         |          |
|---------------|---------|----------|
| 9 to 12 ins.  | \$25.00 | \$225.00 |
| 12 to 15 ins. | 35.00   | 325.00   |

300 or more at 1000 rate!  
30 or more at 100 rate.

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WILD BROS. NURSERY CO.  
Since 1875 Sarcoxie, Mo.

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Send want list for prices on roses, evergreens, shrubs, fruit and shade trees. Hybrid Elm a specialty.

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Leading Perennial Growers  
HOLLAND, MICH.



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Growers of Quality Evergreens  
Lining-out Stock a Specialty

Write for Trade List

**EVERGREEN NURSERY CO.**  
Established 1864 : STURGEON BAY, WIS.

# PRODUCED BY THE NEW PHYTOTEKTOR SYSTEM THE FULLY AUTOMATIC INTERMITTENT MIST METHOD WHICH ROOTS SOFTWOOD CUTTINGS IN SOIL.

BG—bed-grown Mo.—months old  
F—field-grown X—transplanted  
RC—rooted cutting S—seedling

**Abelia Edward Goucher**—X, F, 8 to 12 ins., 15c; 12 to 15 ins., 22c; 2-yr., X, F, 15 to 18 ins., 30c.  
**Abelia grandiflora**—X, F, 8 to 12 ins., 10c; 12 to 15 ins., 14c; 15 to 18 ins., 18c; 2-yr., X, F, 18 to 24 ins., 30c.  
**Berberis julianae**—X, F, 4 to 6 ins., 15c; 6 to 9 ins., 22½c; 9 to 12 ins., 30c.  
**Berberis mentorensis**—8 Mo., BG, 4 to 10 ins., 8c; X, F, 6 to 9 ins., 15c; 9 to 12 ins., 20c.  
**Berberis sargentiana**—X, F, 6 to 9 ins., 15c; 9 to 12 ins., 20c; 2-yr., 12 to 18 ins., 30c.

**Buxus sempervirens arborescens**—X, F, liners, not bushy, 9 to 15 ins., 15c.  
**Chaenomeles (Cydonia)**—Hybrid, upright, non-fruitlet, BG, not branched, 6 to 12 ins., 12c; 12 to 24 ins., 17c; colors—rich red and deep pink.  
**Euonymus fortunei carrieri**—(True), X, F, 4 to 6 ins., 15c.  
**Euonymus japonicus**—Large, RC, 8c.  
**Euonymus kiautschowicus (Patens)**—Large-leaved, RC, 6c; X, F, 9 to 12 ins., 15c; X, F, 12 to 15 ins., 20c; 2-yr., X, F, heavy, 12 to 15 ins., 25c; 15 to 18 ins., 35c.  
**Euonymus kiautschowicus (Patens)**—Small-leaved, RC 6c; X, F, 9 to 12 ins., 15c.

**Ginkgo biloba**—2-yr., S, F, 6 to 12 ins., 12½c; 12 to 18 ins., 17½c.  
**Hydrangea P. G.**—X, F, 12 to 15 ins., 15c.  
**Ilex cornuta**—Large, 8 Mo., RC, 8c; 1-yr., BG, 6 to 8 ins., 12½c.  
**Ilex cornuta burfordi**—Big RC, 8c; BG, 6 to 8 ins., 12½c; 8 to 12 ins., 15c.  
**Ilex crenata convexa**—RC, 7c.  
**Ilex rotundifolia**—Light, 8 Mo., BG, not branched, 7c; 1-yr., BG, 4 to 6 ins., 12½c; 2-yr., BG, extra heavy, 8 to 14 ins., 30c.  
**Ilex howardi**—RC, 15c; southern type.  
**Ilex opaca**—Northern types, not southern hybrids, guaranteed female and guaranteed male, from cuttings, 18 Mo., BG. Some lightly branched, 6 to 10 ins., 25c; for canning in gallon cans, 10 to 15 ins., 35c; 15 to 20 ins., 50c.  
**Ilex vomitoria femina**—X, F, 6 to 9 ins., 20c; 9 to 12 ins., 30c.  
**Jasminum floridum and Jasminum nudiflorum**—BG, 6 to 8 ins., 7c; 8 to 12 ins., mostly branched, 10c; X, F, 12 to 18 ins., 20c; 18 to 24 ins., 30c.  
NOTE—All Juniperus 2-yr., from small, greenhouse type, cuttings transplanted to field.  
**Juniperus Andorra**—X, F, 4 to 6 ins., 15c; 6 to 9 ins., 20c.  
**Juniperus pfitzeriana**—Green, X, F, 4 to 6 ins., 15c; 9 to 12 ins., 27½c; 12 to 15 ins., 40c.  
**Mahonia bealei**—1-yr., S., suitable for potting, 6c.  
**Prunus laurocerasus officinalis** (English Cherry Laurel)—Large, RC, 10c.  
**Prunus laurocerasus schlipkaensis** (Hardy Cherry Laurel)—RC, 10c; 7 Mo., BG, 5 to 8 ins., 17½c.  
**Spiraea Anthony Waterer**—X, F, bushy, 4 to 6 ins., 10c.  
**Viburnum burkwoodi**—Own root, X, F, 8 to 12 ins., 20c; 12 to 18 ins., 35c.  
**Viburnum rhytidophyllum**—RC, 10c.  
FREE PACKING, liners in sphagnum moss and polyethylene plastic. Cash with order or 25% deposit, balance at time of shipment.



**HARVEY TEMPLETON, JR.**

**phytotektor.**  
U.S. HWY. 64-41A  
WINCHESTER — TENNESSEE

public is confused and sometimes looks upon nurserymen with suspicion.

Some owners of patented plants, breaking away from the hit and miss practice of pricing, have adopted the businesslike method of manufacturers. First they establish a retail price that they think the public will pay for a well-advertised plant of merit. Then they tell both the dealer and consumer about it, creating a demand on which the dealer can cash in. The retail price is always featured in the advertisement, so that the buyer is already conditioned to it when he makes up his mind to buy.

Such practices probably could not profitably be followed with respect to plants not protected by patents, especially if they are well-known, standard varieties. However, new plants even though not patented, or older plants of merit but not well known, might be promoted in this manner.

## ROSE DISEASE CONTROL

Progress has been made toward the development of a dust for roses that will control insects, mites and diseases, according to the United States Department of Agriculture.

There is a notable advance toward the development of a fungicide-

miticide mixture that will effectively check spider mites, one of the worst pests of roses, reported W. D. McClellan, plant pathologist; Floyd F. Smith and Edgar A. Taylor, entomologists, at a meeting of the Entomological Society of America.

The best pesticide combination includes 3.4 per cent copper oxysulphate and 25 per cent sulphur—a fungicidal mixture—and the miticide, Aramite. Besides being effective in protecting roses against black spot and mildew diseases, the dust also helped reduce spider mite populations. Aramite proved equal or superior to other miticides in all tests.

JIM NEIGHBORS, a horticulture graduate of Clemson Agricultural College, is the new manager of the Wildwood Garden Shop, Walterboro, S. C. Mr. Neighbors will extend the shop's services by making regular trips throughout the area served by the firm to help with gardening problems and promote the firm's design service.

THE H. L. Baake & Son Nursery, Los Angeles, Calif., a landmark for the past 31 years, has been sold to a construction company, which will build apartments on the land.

## NOTICE

### 10 PER CENT CASH DISCOUNT

is a new benefit for Verhalen customers . . . PLUS usual full grade AND usual lagniappe which have always been characteristic customer treatment at—

**VERHALEN**  
**NURSERY CO.**  
SCOTTSVILLE • 12140 HARRY HINES BLVD.  
TEXAS • DALLAS, TEXAS  
Your Profits Grow in Verhalen Plants

## HOPA FLOWERING CRAB APPLE SEEDLINGS

Majority are showy rose-pink in bloom. Beautiful flowering crab apples for lawns and park plantings. Transplanted, good roots.

|                        | Per 10 | Per 25 | Per 100 |
|------------------------|--------|--------|---------|
| 3 to 4 ft., br.....    | \$3.50 | \$8.00 | \$30.00 |
| 2 to 3 ft., br.....    | 2.50   | 6.00   | 22.50   |
| 18 to 24 ins., br..... | 2.00   | 4.50   | 17.50   |

3% discount and free packing for cash with order.

**HANSEN NURSERIES**  
BROOKINGS, S. D.



**IF YOU SELL**

by MAIL

by RETAIL

by DRIVE-IN

**judson nurseries**  
BRISTOL, INDIANA

### Get your wholesale catalog today!

Twenty-two pages packed full of items that can mean real profit for you: Strawberry plants, Perennials Store packages, Pyramid Gardens.

*Don't delay—write today!*

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WHOLESALE  
**nurseries**  
BRISTOL, INDIANA

### HARDY PLANTS Bulbs and Shrubs

"America's Finest"

Write for Trade List

**Springbrook Gardens**  
MENTOR, O.

**Scarff's Nursery**  
FRUITS  
ORNAMENTALS  
LINING-OUT STOCK  
Send for Complete Trade List.  
NEW CARLISLE, O.

### WHITE FIR SEED

(Abies concolor)  
Clean, high altitude, Colorado-origin seed. Write for free sample and current price.

**SAN ISABEL SEED CO.**  
Box 32 SILVER CLIFF, COLO.

### ROSEMARY WILLOW

(Salix Rosmarinifolia)  
Very attractive fine-textured specimen shrub. Long narrow linear leaves, bluish-green above, white underneath. Stems rich mahogany. Compact upright growth.  
Available in 1-yr. stock only.....\$1.00 each.  
**BEARDSLEE NURSERY PERRY, O.**

### WISCONSIN AWARDS

Two men, long prominent in the nursery industry of Wisconsin, were among those recently presented with distinguished service awards by the Wisconsin State Horticultural Society. The two are John F. Swartz, Kenosha, and Edward L. White, Fort Atkinson. Also honored at the same time was Gilbert Hipke, New Holstein, who is active in fruit growing and processing.

Mr. Swartz was born in 1867 on the Kenosha farm which he is still operating. His father engaged in fruit growing, and Mr. Swartz became interested in the propagation of fruit plants at an early age. He also purchased stock from other sources for lining out and eventual sale at the Swartz Nursery. At present the nursery and landscaping phases of the Swartz business are being operated by Mr. Swartz' sons, and he is devoting his time to the raising of strawberries. He introduced the Thomas variety to the public and at present is growing about 12 acres of Thomas and Robinson strawberries.

Mr. White was born in 1878 in Connecticut and arrived at Fort Atkinson in 1910. His interest in horticulture dates from this time. He has served Wisconsin horticultural groups in several capacities, including testing of new varieties. For several years he sold nursery stock and did landscaping work, but since 1922 his principal interest has been the growing of perennials. He and Mrs. White have an extensive garden featuring iris, peonies and chrysanthemums.

### IOWA MEDAL WINNERS

Recipients of the 1954 honor awards of the Iowa State Horticultural Society for conspicuous contributions to Iowa horticulture, four in number, included one nurseryman and a professor of horticulture whose work has been of much benefit to this industry.

Clyde Heard, proprietor of Heard's Landscape Nursery, Des Moines, Ia., was honored for his educational contributions and for his work as a plantsman. He has tested a wide variety of plant materials in the past 30 years, having been especially interested in better varieties of evergreens, viburnum, philadelphus, euonymus and prunus. Encouraging wider use of lilacs and flowering crab apples, he is currently growing about 140 hybrids and species of lilacs and 50 species of ornamental crab apples.

He served seven and one-half

### Broad-leaved Coniferous Evergreens

Fall planting pays off with good stands and added growth. Write for our complete Price List of Liners, strong, well established, in 2¼ and 2½-in. pots.

**T. G. OWEN & SON, INC.**  
Columbus Mississippi

### COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade Trees, Roses and Lining-out Stock.

Write for complete list.

**ONARGA NURSERY CO.**  
ONARGA, ILL.

*Packaged and Bare Root*  
**ROSE BUSHES**  
Write For Wholesale List  
**McCLUNG BROS. ROSE NURSERY**  
Route 5, Box 275-N Tyler, Texas

### IBERIS

(Candytuft)  
Heavy, No. 1 field-grown plants  
Per 100 Per 1000  
Sempervirens .....\$18.00 \$170.00  
Little Gem ..... 20.00 190.00  
Write for complete trade list.  
**KINGWOOD NURSERIES MENTOR, O.**

### 7000 to 8000 RED CEDAR SEEDLINGS

6 to 9 in. .... Per 100  
\$3.00  
**FRED C. BLUMMER**  
ARNOLD, NEB.

### LINERS

TAXUS — JUNIPERS — THUJAS  
HEMLOCKS — DEUTZIA GRACILIS  
and ROSEA — WEIGELA EVA  
RATHKE — TRANSPLANTS AND  
POTTED PLANTS.

**HUMPHREYS LANDSCAPE SERVICE**  
MT. STERLING, KY.

years as secretary-treasurer of the Iowa Nurserymen's Association, as vice-president two years and as president one year. At present he is chairman of the board of governors and represents the Iowa Nurserymen's Association on the board of directors of the Iowa State Horticultural Society. He has been a member of the board of governors of the American Association of Nurserymen for over seven years and is a member of the educational committee of the National Landscape Nurserymen's Association.

Mr. Heard majored in horticulture and received his master's degree in agriculture in 1912 at the University of Idaho. He taught and did experimental work in horticulture and related subjects at the universities of Idaho, Arkansas and Nebraska before entering the nursery business.

#### Harvey L. Lantz

Prof. Harvey L. Lantz has been associated since 1917 with the horticulture department of Iowa State College in its fruit-breeding program. He helped introduce Sharon, Secor, Edgewood, Joan and other varieties of apples, the Patten pear and the new Blackhawk black cap raspberry.

Soil conservation practices in fruit growing have been shown under Professor Lantz' direction at the Council Bluffs experimental fruit farm. He has directed turf research work at the experiment station since 1946.

He has served as director, vice-president and president of the Iowa State Horticultural Society and was secretary of the American Pomological Society for 17 years.

#### WINS NURSERYMEN'S AWARD

Henry R. Testa, New Haven, Conn., a student in the Ratcliffe Hicks School of Agriculture, has been given the 1954 Connecticut Nurserymen's Association award of \$200. The award was presented by A. I. Mann, director of the Ratcliffe Hicks school, at a recent college of agriculture assembly at the University of Connecticut.

In addition to his being an honor student, Mr. Testa is treasurer of the student horticultural club and was cochairman of the nursery management exhibit for the 1954 fall horticulture show. He also participates in sports and other student activities.

GLENN VAN RHEE recently opened Van's Garden Center, at Holland, Mich.

It's catalog-reading time:

Dig out of your files and dust off that pretty green and white catalog of ours.

Now that it's cold outside, pull up to the fire where it is warm and figure out your Spring-planting needs.

Order now—shipment when you are ready.

Beautiful stock ready for  
Field Planting

or  
Container Growing

### ATTEND WINTER TRADE MEET

Southern Nurserymen's Assn.

Hotel Roosevelt

Jacksonville, Fla.

January 23 to 25, 1955



## GRESHAM'S NURSERY

R. F. D. 9

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Phone: 82-5689

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SHRUBS, FOREST and SHADE TREES,  
EVERGREENS, VINES and CREEPERS

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**THE FRIENDLY EVERGREENS**, by L. L. Kumlien. Planting propagation, culture, digging and transplanting. 237 p. 500 illus., 82 in color. \$10.00, postpaid. American Nurseryman, 343 S. Dearborn St., Chicago 4, Ill.

## LINER LIST

### AVAILABLE FOR WINTER AND SPRING DELIVERY

All stock in 2½-in. pots except where otherwise specified. All prices quoted per 100, F.O.B. nursery. Packing extra at cost.

|  |         |
|--|---------|
| ABELIA GRANDIFLORA.....  | \$10.00 |
| CAMELLIA SASANKUA,<br>Mine-no-yuki and Cleopatra,<br>3-in. pots..... | 15.00   |
| ELAEAGNUS PUNGENS.....   | 10.00   |
| ENGLISH LAUREL.....  | 17.50   |
| GARDENIA MYSTERY, heavy,<br>3-in. pots.....                          | 15.00   |
| GARDENIA RADICANS.....   | 10.00   |
| ILEX CRENATA CONVEXA<br>(BULLATA).....                               | 15.00   |
| ILEX CRENATA.....  | 15.00   |
| ILEX CRENATA.....  | 15.00   |
| ROTUNDIFOLIA.....  | 15.00   |
| ILEX CORNUTA.....  | 17.50   |
| ILEX CORNUTA BURFORDI.....   | 17.50   |
| ILEX CORNUTA SPECIAL.....  | 15.00   |
| ILEX EAST PALATKA.....   | 15.00   |
| ILEX OPACA.....  | 20.00   |
| ILEX OPACA HOWARDI.....  | 17.50   |
| ILEX VOMITORIA.....  | 20.00   |
| ILEX VOMITORIA.....  | 20.00   |
| JASMINUM PRIMULINUM,<br>3-in. pots.....                              | 10.00   |
| LIGUSTRUM LUCIDUM<br>(Wax-leaved Privet).....                        | 10.00   |
| LOQUAT (Eriobotrya Japonica),<br>heavy, B. R.....                    | 20.00   |
| MAGNOLIA FUSCATA<br>(Banana Shrub).....                              | 15.00   |
| OSMANTHUS AQUIFOLIUM,<br>2½-in. pots.....                            | 17.50   |
| PHOTINIA GLABRA.....   | 17.50   |
| PHOTINIA SERRULATA,<br>2½-in. pots.....                              | 17.50   |
| PITTOSPORUM TORIRA.....  | 15.00   |
| VIBURNUM MACROPHYLLUM.....   | 17.50   |
| VIBURNUM ODORATISSIMUM,<br>3-in. pots.....                           | 17.50   |
| VIBURNUM TINUS, 2½-in. pots.....                                     | 15.00   |

#### VINES AND CREEPERS

|   |       |
|---|-------|
| FICUS REPENS (Fig Vine).....              | 15.00 |
| HEDERA HELIX (English Ivy),<br>heavy..... | 15.00 |

#### AVAILABLE MATERIAL IN

##### LANDSCAPE SIZES:

Abelia Grandiflora  
Ilex East Palatka  
Ilex Rotundifolia  
Ilex  
Laurel Cherry  
Ligustrum  
Loquats  
Kurume Azealeas  
Camellia Japonica

Send us your order  
while our supply lasts.

### CAROLINA FLORAL NURSERY

Rt. 52  
MOUNT HOLLY, S. C.

## POT-GROWN LINERS

To avoid disappointment contact us between now and September for your liner needs for 1955-1956 season.

We are sold out for this season.

**JOHNSON'S NURSERY**  
BAXTER, TENN.

## News from Texas

### "PLANT TEXAS" CAMPAIGN

A "Plant Texas" campaign was launched by the Texas Association of Nurserymen and the Texas department of agriculture, January 7, at Dallas, Tex., as part of the nation-wide "Plant America" drive, sponsored by the American Association of Nurserymen. A dinner and program were held at the Adolphus hotel by Dallas nurserymen in cooperation with the state organization. The Tarrant County Nurserymen and Landscape Association and the Dallas County Nurserymen's Association were among the organizations cooperating.

The objective of the campaign is "to conserve the land, to make it greener and more productive for abundant life, beauty and recreation," according to Bill Collins, executive secretary of the Texas Association of Nurserymen. Plans were made to plant seeds, bulbs, grass, flowers, shrubs and trees.

Gov. Allan Shivers, of Texas, had proclaimed January as "Plant Texas" month.

More detailed information on this campaign will appear in the next issue of the American Nurseryman.

### TEXAS ROSE FESTIVAL

Officers of the 1955 Texas rose festival were elected December 28 at Tyler. Ira Hildebrand, warehouse owner, succeeds L. A. Dean as president. W. Bryan McKinney, rose nurseryman, was elected vice-president in charge of rose activities.

Local rose growers recommended holding the festival later than the first week end in October, as has been the custom. Accordingly, the executive committee set October 21 to 23 as dates for the 1955 festival. The American Rose Society will hold its annual convention at Tyler immediately afterward.

Among the festival directors who were re-elected for 3-year terms were the following connected with commercial rosebush growing: Mrs. Earl Atwood, Jesse Breedlove, Clark Kidd and Dr. E. W. Lyle.

### NAMES ROSE FOR FILM

Jesse Breedlove, of the Breedlove Nurseries, Tyler, Tex., announced the Day of Triumph rose on the occasion of the premiere of the motion picture for which it was named, at Tyler, December 17.

Francis Meiland, creator of the

## SOME EXCELLENT VALUES FROM OUR FALL WHOLESALE LIST

### Abelia grandiflora

(Sheared twice)

|                         | Each   |
|-------------------------|--------|
| 18 to 24 ins., B.R..... | \$0.25 |
| 2 to 3 ft., B.R.....    | .35    |
| 3 to 4 ft., B.R.....    | .50    |
| B&B double above        |        |

### Pfizer Juniper

|                         |      |
|-------------------------|------|
| 12 to 18 ins., B&B..... | 1.10 |
| 18 to 24 ins., B&B..... | 1.40 |
| 24 to 30 ins., B&B..... | 1.60 |
| 30 to 36 ins., B&B..... | 2.00 |

### Sheared Laurel Cherry

|                      |      |
|----------------------|------|
| 2 to 3 ft., B&B..... | 1.25 |
| 3 to 4 ft., B&B..... | 1.75 |
| 4 to 5 ft., B&B..... | 2.25 |
| 5 to 6 ft., B&B..... | 2.75 |

Wholesale list will be mailed on request. We have many other fine values this season.

**MONTICELLO NURSERY CO.**  
MONTICELLO, FLA.

## JUNIPERUS VIRGINIANA

(Red Cedar)

|                       | Per 1000 |
|-----------------------|----------|
| 6 to 9 ins., S.....   | \$12.50  |
| 9 to 12 ins., S.....  | 17.50    |
| 12 to 18 ins., S..... | 22.50    |

In lots of 10,000, 5% discount; in lots of 50,000 or more, 10% discount. No shipments made on this stock after April 10.

See our special offer on page 55.

### O. H. PERRY NURSERY CO.

Box 545  
McMINNVILLE, TENN.



## FINISHED STOCK and LINERS

We solicit your inquiries.

## LAIRD'S NURSERIES

Route 2  
RICHMOND, VA.

5 miles west of city on Broad St. Road

## NEW PUSSY WILLOW SILVER CLAW

(Mutabilis Selection)

Excellent low-growing, extremely early-flowering variety. Catkins are long and slightly curved around stem when fully developed. Ideal florists' variety.

\$1.00 each.

BEARDSLEE NURSERY PERRY, O.



Peace rose, was the hybridizer. The parents were Peace and Europa.

The new rose was on display in the Tyler theater lobby as the public obtained its first glimpse of a filmed version of the life of Jesus Christ since Cecil B. DeMille made his epic, "King of Kings," 27 years ago.

Mr. Breedlove described the rose as pink with lighter-colored edges, with 50 to 65 petals per bloom.

ACTIVITIES of Hugh Wolfe, Stephenville, Tex. — nursery, farm, ranch, aluminum gate manufacture, etc. — were shown by movies on the weekly half-hour TV program, "Texas in Review," of the Humble Oil Co., December 27.

LEONARD RIGGS, Longview, Tex., suffered damage of \$900 to his car when he hit a cow when driving in Louisiana, December 19. He was accompanied by Mrs. Riggs and Leonard, Jr., and all escaped unhurt.

TREATY OAK, at Austin, Tex., was recently selected by the American Forestry Association as the most perfect tree specimen in the United States.

## Stan Says —


Two interesting trees are *Taxodium distichum*, common bald cypress, and *Taxodium distichum pendens*, weeping bald cypress.

The *pendens* type is the one that is seen in Pittsburgh's residential east end (on properties that once were the estates of R. B. Mellon; Senator William Flinn, and Thomas M. Armstrong, of cork fame). There must be at least 70 mature trees in Pittsburgh today; these trees stand city (not downtown) conditions quite well, as many of them were planted in the days of coal oil lamps.

*Taxodium distichum pendens* makes a narrow pyramidal growth and its vertical main trunk gives it a silhouette unlike any other northern tree. The foliage is soft and fernlike, almost like a tree covered with green ostrich feathers; in mid-October the foliage turns a reddish brown.

Few southern plants have adapted themselves to the north as well as this tree has done. There are some good specimens of *taxodium* in beautiful Spring Grove cemetery, in Cincinnati. Some especially noteworthy specimens are located in the Philadelphia district. The tree is also found at Hamilton, Ont. (50 miles northwest of Niagara Falls along the shore of Lake Ontario), but here the tree is no doubt nearing its northern limit of growth.

# PINK FLOWERING DOGWOOD



| Cornus florida rubra        |       | Per 10  | Per 100  | Per 1000  |
|-----------------------------|-------|---------|----------|-----------|
| 6 to 12 ins., 1-yr.         | ..... | \$ 6.00 | \$ 50.00 | \$ 400.00 |
| 12 to 18 ins., 1-yr.        | ..... | 8.50    | 75.00    | 650.00    |
| 18 to 24 ins., 1-yr.        | ..... | 12.50   | 100.00   | 900.00    |
| 24 to 30 ins., 1-yr.        | ..... | 15.00   | 125.00   | 1100.00   |
| 30 to 36 ins., 2-yr.        | ..... | 17.50   | 150.00   | 1350.00   |
| 3 to 4 ft., 2-yr.           | ..... | 30.00   | 250.00   | 2250.00   |
| 3 to 4 ft., br., bloom buds | ..... | 40.00   | 350.00   | .....     |
| 4 to 5 ft., 2-yr.           | ..... | 30.00   | 400.00   | .....     |
| 4 to 5 ft., br., bloom buds | ..... | 55.00   | 450.00   | .....     |

## Boyd Nursery Co., McMinnville, Tenn.

## HEAVY SHRUBS JUNIPER GRAFTS LINING-OUT STOCK SPECIMEN EVERGREENS

# SNEED NURSERY CO.

P. O. Box 798      OKLAHOMA CITY 1, OKLA.

## COMMERCIAL Nursery Co.

ESTABLISHED 1900

### Decherd, Tennessee

## THE KENTUCKY JUNIPER GRAFTERS ASSN.

invites your inquiries for Juniper grafts and other liners. Upon request, we will gladly mail you a list of propagators in Kentucky, after which you may contact your favorite grower. Address inquiries to: NICK VERBURG, ANCHORAGE, KY.

## PINK DOGWOOD WHITE DOGWOOD

1, 2 and 3-yr.-old.

*Evergreens*  
*Broad-leaved Evergreens*  
*Shade Trees*  
*Flowering Crab Apples*  
*Flowering Shrubs*  
*Fruit Trees*

Let us quote on your requirements.

**HAWKERSMITH & SONS NURSERY**  
TULLAHOMA, TENN.



## AZALEAS

Broad-leaved Evergreens and a general line of quality ornamentals.

**THE TANKARD NURSERIES**  
EXMORE, VA.

## SPECIAL OFFER ON FLOWERING SHRUBS TREE SEEDLINGS—EVERGREENS—VINES COLLECTED

|                                 |          |
|---------------------------------|----------|
| Acer rubrum (Red Maple)         | Per 1000 |
| 12 to 30 ins., liners.....      | \$17.50  |
| Willow Oak (Quercus phellos)    |          |
| 12 to 24 ins.....               | 22.50    |
| Carpinus caroliniana (Hornbeam) |          |
| Understock, grafting grade...   | 24.00    |
| Hypericum densiflorum, yellow   |          |
| 8 to 18 ins., S.....            | 12.00    |
| Hydrangea, native               |          |
| 6 to 18 ins.....                | 14.00    |
| Sweet Gum (Liquidambar)         |          |
| 8 to 18 ins., S.....            | 14.00    |
| Hall's Japanese Honeysuckle     |          |
| 12 to 18 ins., liners.....      | 9.00     |
| Ilex opaca (American Holly)     |          |
| 4 to 12 ins., S.....            | 16.50    |

See our other ad on page 54.

**O. H. PERRY NURSERY CO.**  
Box 545  
McMinnville, Tenn.

- Abelia Grandiflora
- Hybrid Rugosa Roses
- Nurserymen's Supplies
- Liners—complete list.

See Our Trade List.

**CHASE NURSERY CO.** CHASE, ALA.

## SURPLUS STOCK

| <i>Abelia grandiflora</i><br>(Glossy Abelia), field-grown | Per 100 | Per 1000 |
|---|---------|----------|
| 4 to 6 ins., C.....                                       | \$ 3.50 | \$ 25.00 |
| 6 to 12 ins., C.....                                      | 5.00    | 40.00    |
| 12 to 18 ins., 2-yr., C....                               | 8.50    | 75.00    |
| 18 to 24 ins., 2-yr., C....                               | 11.00   | 100.00   |
| 2 to 3 ft., 2-yr., C.....                                 | 20.00   | 150.00   |

| <i>Hydrangea paniculata grandiflora</i><br>(Peegee Hydrangea) | Per 100 | Per 1000 |
|---|---------|----------|
| 4 to 6 ins., C.....   | 3.00    | 20.00    |
| 6 to 12 ins., C.....  | 4.50    | 35.00    |
| 12 to 18 ins., C.....   | 7.00    | 60.00    |
| 12 to 18 ins., 2-yr., C....                                   | 8.50    | 75.00    |
| 18 to 24 ins., 2-yr., C....                                   | 11.00   | 100.00   |
| 2 to 3 ft., 2-yr., C.....                                     | 20.00   | 150.00   |

| <i>Spiraea vanhouttei</i><br>(Van Houtte Spiraea) | Per 100 | Per 1000 |
|---|---------|----------|
| 4 to 6 ins., C.....                               | 2.00    | 15.00    |
| 6 to 12 ins., C.....                              | 3.50    | 25.00    |
| 9 to 12 ins., hedging....                         | 5.00    | 40.00    |
| 12 to 18 ins., C.....                             | 5.00    | 40.00    |
| 12 to 18 ins., hedging....                        | 6.50    | 55.00    |
| 18 to 24 ins., 2-yr., well-br.                    | 11.00   | 100.00   |
| 2 to 3 ft., 2-yr., well-br.                       | 20.00   | .....    |

| <i>Cornus florida</i><br>(White-flowering Dogwood) | Per 100 | Per 1000 |
|--|---------|----------|
| 12 to 18 ins., 2-yr., S....                        | 4.00    | 30.00    |
| 18 to 24 ins., 2-yr., S....                        | 5.00    | 40.00    |
| 2 to 3 ft., 2-yr., S.....                          | 6.00    | 50.00    |
| 2 to 3 ft., well-br.....                           | 35.00   | .....    |
| 3 to 4 ft., well-br.....                           | 60.00   | .....    |

### NATIVE EVERGREENS

| Collected stock   | Per 100 | Per 1000 |
|---|---------|----------|
| <i>Rhododendron maximum</i> , <i>Kalmia latifolia</i> , <i>Ilex opaca</i> , <i>Tsuga canadensis</i> |         |          |
| 3 to 6 ins., S.....   | \$2.50  | \$20.00  |
| 6 to 9 ins., S.....   | 3.50    | 30.00    |
| 9 to 12 ins., S.....  | 5.50    | 50.00    |

**CUMBERLAND PLATEAU NURSERY**  
RT. 1 CROSSVILLE, TENN.

Mention The American Nurseryman when you write.

## SASANQUA CAMELLIAS

are fast gaining popularity. They are being planted everywhere in the south-east and as far north as Washington, D. C.

Don't let the boat leave you! Have a variety ready to sell. The demand will be greater each season. We have all sizes ready:

|  |                  |
|--|------------------|
| 6 ft., specimen plants, B&B.               | \$4.00 to \$6.00 |
| (These will be in bloom in about 3 weeks.) |                  |
| 3 to 4 ft., B&B, some buds.....            | 2.25             |
| 18 to 24 ins., field-grown.....            | 1.50             |
| 18 ins., well br., T.....                  | .50              |
| 8 to 12 ins., liners, T.....               | .20              |
| 6 to 8 ins., liners, T.....                | .12              |
| R.C. ....                                  | .10              |

**EAST COAST FLOWER FARMS**  
PINK HILL, N. C.

## Association Briefs

### NEW SEATTLE PRESIDENT

At the December meeting of the Allied Nurserymen of Greater Seattle (Wash.), Harold Hopkins, Hopkins Nursery, Bothell, Wash., was elected to fill out the remainder of the president's term. The office was formerly held by Paul Meyer, Wedgewood Gardens, Seattle, who was ordered by his doctor to resign.

Brian O. Mulligan, director of the University of Washington Arboretum, gave a talk on plants little known in the Pacific northwest. These plants have been grown experimentally at the arboretum and Mr. Mulligan recommended them to nurserymen as something new and exotic for the customer who demands these qualities.

### OREGON ELECTION

Elwood Stansfield, Stansfield's Nursery, Medford, Ore., was elected president of the Rogue Valley (Ore.) Nurserymen and Growers' Association at a recent meeting of the group.

Other officers elected were Ruth Walden, Walden's Floral, vice-president, and Mary Hanley, Hanley's, sergeant at arms, both of Medford. J. Vernon Marshall, Marshall Nursery, Medford, was re-elected secretary-treasurer and business agent. D. R. Morgan, Grants Pass; Mrs. Tom Carter, Ashland; Jack Williams, Ashland, and Kenneth Meadows, Medford, are on the board of directors.

### TUCSON ELECTION HELD

Newly elected president of the Tucson chapter of the Arizona Association of Nurserymen is Louis B. Roeser, Guy Monthan Nurseries, Tucson. Mr. Roeser succeeds Verne L. Owen, Owen Nursery & Landscape Service, who was recently made president of the state association. Other officers for 1955 are James B. Hostetter, Hostetter Landscape & Nursery, vice-president, and Carl Nielsen, Fiesta Nursery, secretary-treasurer.

### NORTH JERSEY MEETING

On December 16, 1954, members of the North Jersey Metropolitan Nurserymen's Association were guests of the North Jersey Farm Supply Cooperative Association, of East Paterson, N. J.

After a short business meeting,

## Extensive Growers of



**FRUIT TREES (also Dwarf)**  
**SMALL FRUITS • NUT TREES**  
**FLOWERING TREES**  
**SHADE TREES • SHRUBS**  
**EVERGREENS**  
**HEDGES • VINES**

All under irrigation. Large mechanical digger assures entire root system. New 95' x 160' cold storage, keeps stock in perfect condition. Visit our nursery and see the superior quality of our stock. Book orders now for Fall and Spring delivery.

Write for complete Wholesale Catalog with attractive prices

1955-OUR 60th YEAR  
**Ozark** SINCE 1895  
**NURSERY COMPANY**  
TAHLEQUAH, OKLAHOMA

### MULTIPLE VARIETY APPLE TREES

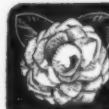
|                               | Per 10  | Per 100  |
|-------------------------------|---------|----------|
| 5-In-1, 5-yr., 8 to 10 ft.... | \$20.00 | .....    |
| 5-In-1, 4-yr., 6 to 7 ft....  | 17.50   | \$160.00 |
| 5-In-1, 3-yr., 3 to 5 ft....  | 15.00   | 135.00   |
| 4-In-1, 4-yr., 6 to 7 ft....  | 15.00   | 135.00   |
| 4-In-1, 3-yr., 3 to 5 ft....  | 11.00   | 100.00   |
| 3-In-1, 4-yr., 6 to 7 ft....  | 12.50   | 110.00   |
| 3-In-1, 3-yr., 3 to 5 ft....  | 9.00    | 80.00    |

Ask for Complete Wholesale List.  
**WAYNESBORO NURSERIES**  
WAYNESBORO, VIRGINIA

### CANNED PLANTS

Build profits with Wight's container-grown evergreens. Wide assortment, including *Ilex*, *Magnolia*, *Camellias*, *Pyracantha*. Ask for wholesale list.

**Wight NURSERIES** CAIRO, GA.



**SEMME'S  
NURSERIES**

**AZALEAS - CAMELLIAS**  
and other choice evergreens

Wholesale Catalog **SEMME'S, ALA.**

### MORNING STAR NURSERY

**Rives, Tennessee**  
Wholesale Growers  
Evergreens, Trees  
Deciduous Shrubs, Roses  
Send us your want list

the members were taken on an interesting tour of all the new buildings that the Farm Cooperative Association has built since its disastrous fire a few months ago. Afterwards they returned to the new office for refreshments.

Edward S. Wyckoff, Sec'y.

#### NEW FARM BUREAU HEAD

Charles B. Schuman, 47, president of the Illinois Agricultural Association, was elected president of the American Farm Bureau Federation last month, at the organization's 36th annual meeting. He succeeded Allan B. Kline, who had established the influence of the federation in national affairs, supporting the current administration's policy of flexible farm supports. Mr. Kline resigned because of poor health.

#### STORM LOSS DEDUCTIBLE

Taxpayers may deduct losses from hurricane or windstorm damage to their property on their Federal income tax returns for 1954. The deductions may not be used in subsequent years.

Owners of both business and private property, such as residences, may make deductions.

In the case of nonbusiness property, the amount of the loss is not the cost of replacement or restoration, but is the difference between the value of the property immediately before the storm and its value immediately afterwards not to exceed the cost or other basis of the property destroyed. Such losses must be reduced by the amount of insurance or other compensation received on account of the damage. Losses on account of destruction of nonbusiness property are deductible only if the taxpayer itemizes his deductions. They cannot be deducted if the taxpayer uses the optional standard deduction.

Different rules apply in the case of destruction by storm of business property. In such cases where there is a partial destruction, the loss is the proportion of the adjusted basis of the entire property which the value of the destroyed part bears to the value of the entire property. Such a loss must also be reduced by any insurance or other compensation received by reason of the damage.

JOHN F. LEMON recently joined the Conard-Pyle Co., West Grove, Pa., as vice-president. Mr. Lemon was formerly in the florists' trade.

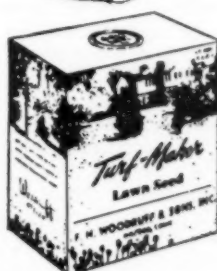
## It's EASIER and MORE PROFITABLE To Sell Better Lawns



**TURF-MAKER** — Peer of all mixtures . . . now also available with Merion Bluegrass, as well as for sun, shade and light soils.

**MILFORD GREEN** — Develops fine, durable turf; tolerates ordinary soil deficiencies; excellent for playgrounds, terraces and problem areas. Blends for sun or shade.

**GRO-SOD** — "10-6-4" lawn food par excellence with 50% of nitrogen organic.



No one lawn seed mixture can meet the different demands of our country's various climate and soil conditions. Therefore, Woodruff custom blends each lawn seed mixture to suit the area in which it's sold . . . as well as different mixtures for sun and shade.

Enlightened dealer cooperation and a complete range of selling aids make Woodruff selected dealerships increasingly more valuable and profitable. Drop us a card if you'd like to have one of our salesmen explain the various ways in which Woodruff helps "sell sales" for Woodruff dealers. Dept. AN1-5

### F. H. WOODRUFF & SONS, INC.

MILFORD, CONNECTICUT

BRANCHES: BELLEROSE, L.I., N.Y. • ATLANTA, GA. • TOLEDO, O.  
SACRAMENTO, CALIF. • DALLAS, TEX. • MERCEDES, TEX. • SALISBURY, MD.

## The Homestead Nurseries H. G. Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials — Quality Stock in All Leading Varieties. Trade catalog on request.

### WE SPECIALIZE IN FINE Azaleas and Camellias

Write for Catalog  
**FLOWERWOOD NURSERY**  
GREGORY L. SMITH, Owner  
Rt. 1, Box 130 MOBILE, ALA.



Azaleas, Camellias and Magnolias  
our specialties.

Semmes, Ala.





**STRAWBERRY PLANTS**

|                        | Per 1000 |
|------------------------|----------|
| Albritton .....        | \$11.00  |
| Armora .....           | 10.00    |
| Arrowhead .....        | 10.00    |
| Blakemore .....        | 8.50     |
| Dunlap .....           | 7.50     |
| Empire .....           | 12.00    |
| Fairland .....         | 11.00    |
| Premier .....          | 12.00    |
| Robinson .....         | 8.00     |
| Tennessee Beauty ..... | 11.00    |

**DOLLAR NURSERY**  
BLOOMFIELD, IA.

**SMALL FRUIT PLANTS  
and  
VEGETABLE ROOTS**

We grow for the whole-  
sale trade only.

**KRIEGER'S WHOLESALE NURSERY**  
BRIDGMAN, MICH.

**WE OFFER . . .  
Our General Line of  
SMALL FRUIT PLANTS**

Let us quote on your  
requirements.

**L. J. RAMBO'S WHOLESALE NURSERIES**  
Bridgman, Michigan

**GRAPE CUTTINGS**

Concord, Delaware and Niagara  
State Inspected  
Wire-bound, 100 per bunch.  
\$6.00 per 1000  
Cash or C.O.D. Order at once. Start  
cutting December 1.  
**PAW PAW PLANT CO.**  
PAW PAW, MICH.

**Specializing in B&B Evergreens  
BROADLEAFS and CONIFERS**  
Catalog on Request.

**LINDLEY NURSERIES, Inc.**  
P. O. Box H GREENSBORO, N. C.

**CHINESE CHESTNUT TREES**

Seedlings only of the Peter Lui strain.  
A surplus of small sizes due to drought  
conditions. Your inquiries invited.

**LEELAND FARMS** LEESBURG, GA.

**CERTIFIED BLUEBERRY PLANTS**

Per 100 Per 1000  
1-yr., rooted cuttings.... \$ 8.00 \$ 70.00  
6 to 12-in. plants ..... 15.00 135.00  
F.O.B. 15 Varieties

**A. G. AMMON**  
Box 14 CHATSWORTH, N. J.

**TREE MEN MEET AT FRESNO**

The western chapter of the National Shade Tree Conference met at McLane hall, Fresno State College, Fresno, Calif., on the evening of December 10, a tour of Roeding and Kearney parks following on the morning of December 11.

The week of December 6 to 10 had been declared Fresno shade tree week by the city finance commissioner, James P. Owens, acting mayor in the absence of Mayor Gordon G. Dunn. Mr. Owens said: "I wish to welcome the members of the conference to this city, which has truly arisen out of the desert, as though in fulfillment of the Biblical prophecy."

There was an attendance of well over 100 nurserymen, superintendents of parks, arborists and planning commissioners from Fresno, north to San Francisco and south to Los Angeles, and it was indeed an interesting conference. The chairman of the local committee was Louis LeValley; other members were J. D. LaBonte, tree co-ordinator for the Pacific Gas & Electric Co.; Carl Albracht, Donald Mum, Harry Werwer, O. M. Braun, Sid Whitehorn and Clarence Large.

Keith L. Davey, the first speaker, stressed the advantage of a shade tree conference to communities through the exchange of information on new trees and on the care and preservation of existing trees. He stressed the proper trimming of trees by men who are thoroughly trained and equipped to be comfortable on their jobs. There was a display showing the results of good and bad trimming, fills and cabling procedures.

Willis A. Stribling, sales manager of Stribling's Nursery, Merced, spoke on "The 10 Best Trees." The reason he selected these 10 trees, Mr. Stribling said, was public acceptance, nursery production, adaptability and availability and the 10 he recommended for the San Joaquin valley were the Modesto ash, Stribling's mulberry, silver maple, European sycamore, white birch, liquidambar, Chinese pistache, albizzia, Prunus blireiana and tulip tree, but perhaps the maple, the sycamore and the tulip trees are too large for streetside planting, he said.

Maunsell Van Rensselaer concluded the conference with an address of the world and of California in particular. He mentioned the years he spent at the Santa Barbara Botanical Garden and the effort at Santa Barbara to make everyone tree con-

**SMALL FRUIT PLANTS**

Grapes

Currants

Berry Plants

Write for Wholesale Price List

**FOSTER NURSERY CO., Inc.**  
69 Orchard St. FREDONIA, N. Y.



**NEW HYBRID  
CLIVIA**

4 year old, heavy  
foliage, bare  
rooted, two feet  
plants. Prepared  
to bloom Jan.-  
Feb. Clusters of Orange Red flowers.

Feb. Clusters of Orange Red flowers.

**3 for \$5.75 10 for \$18.75**

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scious by every means at hand—newspapers, lectures, etc., to the point where a resident of Santa Barbara was almost afraid to remove a tree, even in his own backyard.

Mr. Van Rensselaer told a little about the Saratoga Foundation, of which he is director. Search is being made in the parts of the world with climatic conditions similar to those of California for trees that perhaps have never been tested in the state. Experiments are made with trees already growing there, but unsuccessfully. Effort is being made to find better forms in trees, better habits of growth and more durable root systems.

He showed slides of Magnolia grandiflora, liquidambar, Chinese pistache and ginkgo, to illustrate the difference in shape and the various colorings in autumn. He believes that these trees can be propagated vegetatively and that they will hold true to form.

The following morning, over half of the members met at Roeding park, Fresno, and made a tour of the outstanding trees, directed by Clarence Large, the Fresno city superintendent of parks. Description and history of the interesting trees inspected were given by Mr. Van Rensselaer. Visit was made to Kearney park, which has a fine planting of eight miles of palms, eucalyptus and oleander, planted by Theodore Kearney in 1888. Also in Kearney park is a wonderful grove of cork oaks, some of which have attained a diameter of three feet or better.

J. D. LaBonte

### FALL PLANTING CLICKS

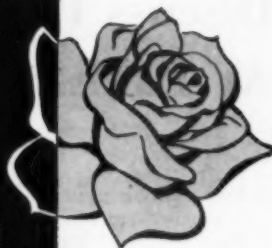
Efforts put forth by Brookdale-Kingsway Nurseries, Ltd., Bowmanville, Ont., Canada, for the past few seasons to popularize fall planting paid off this past season, according to Norman J. Scott, manager.

"Our total volume of fall sales increased 44.72 per cent," reports Mr. Scott. "Our retail sales increased 30.43 per cent and our wholesale sales increased 63.66 per cent over those of the fall of 1953. The results are gratifying, especially in view of the fact that, like everyone else, we went through a hurricane and the wettest fall that anyone can remember in a long time.

"It would appear that the idea of fall planting is beginning to catch on and we are looking forward to a greater increase in fall sales in 1955, which will permit us more evenly to balance our annual picture insofar as work is concerned."

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# Discuss Production Problems At 1-Day California Institute

By Ed. McNeill

Technical problems in the production of nursery stock were studied by a large group of southern California producers at the Western Club, Gardena, December 8, in a 1-day institute sponsored by the Los Angeles County Farm Bureau and the Bedding Plant chapter of the California Association of Nurserymen.

Subjects discussed by prominent members of the agriculture department of the University of California at Los Angeles, the farm bureau and a few commercial firms, ranged from salesmanship to a highly specialized explanation of the mechanics of controlled plant activity affording the audience of 75 some invaluable information concerning growing practices.

Leading figures in the promotion and conduct of the event were Jack Mather, secretary of the Bedding Plant Advisory Board, with headquarters at Torrance, and J. W. Huffman, Los Angeles county farm adviser, who acted as chairman for the meeting.

Liberal use of projected slides and motion picture film by nearly all the speakers materially aided the nurserymen in comprehending the presented material. In all, nine talks were given in the daylong session.

## Time and Motion Studies

The opening speech was by Dr. Roy Smith, of the department of agricultural economics, U.C.L.A., entitled "Time and Motion Studies." In his allotted time, Dr. Smith outlined the progress that had been made in the lemon industry in southern California by the design and use of new mechanical devices to speed up packinghouse operations and thus reduce costs.

Although admittedly not of any particular value as applied to plant production, his talk was designed to demonstrate the possibilities of reducing production costs in the nursery industry by the employment of technicians to study present methods and recommend mechanical means of simplifying the processes.

"The primary problem," said Dr. Smith, "is to break down the movements into their basic parts, then analyze them to determine how to do them better mechanically."

Dr. Smith then outlined some of

the specific improvements which had been made in procedures involved in lemon packing.

At the present time Dr. Smith has extended his study to the improvement of field techniques. More time is needed before any definite conclusions can be reached in this area, he added.

The next subject, insect control, was a question and answer panel conducted by Drs. R. N. Jefferson and L. R. Brown, of U.C.L.A.'s department of entomology. The period was spent in analyzing the pest control problems of the industry and suggesting corrective chemicals.

Several general observations were

made in response to questions: (1) There is no great difference between the effectiveness of spray or dust—the use of one or the other depends on the available equipment; (2) there is no all-purpose material that will eliminate every pest, and (3) a preventive program of pest control is certainly preferred. Many of the newest chemicals, the speakers advised, have not been thoroughly tested and consequently are not licensed for greenhouse use at the present time. Some require a permit from the department of agriculture before they can be utilized. Considerable time was spent in discussing the uses and advantages of Malathion and Parathion.

"No meeting of this nature is complete without some study of salesmanship," said Mr. Huffman, as he introduced Charles W. McNair, representing the tractor equipment distribution division of the Ford Motor Co., Los Angeles.

Mr. McNair advised the audience that there are two fundamentals of

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selling, (1) the customer must have a need for the product and (2) he must have the ability to pay. Further, the salesman should always be "closing" as he sells.

Since every move in selling is directed toward "closing," Mr. McNair, with the aid of a movie, offered five fundamentals in closing the sale:

1. "Button the sale closed with benefits." Here the salesman emphasizes the benefits of his product to the customer.

2. "Lock the sale with the key to the key issue." The salesman stresses how the product will fill the customer's most important need.

3. "Close the sale with visible 'yawn preventers'." The salesman uses samples, diagrams, etc., to maintain the customer's interest.

4. "Ask for the order with fear-free frankness." The salesman should not hesitate to suggest closing.

5. "Seal the sale so it stays closed." The salesman keeps the subject of the order foremost until the sale is completed.

#### Plastic Greenhouse Coverings

In the last discussion of the morning session, Mr. Huffman outlined to the audience some conclusions reached by the agriculture department of the University of Kentucky after experimenting with plastic coverings for greenhouses. Plastics, according to Mr. Huffman, require a lower initial outlay, and although the material must be replaced every year the cost is still less than that of maintaining glasshouses. The plastics offer less transparency and less loss of moisture and heat.

Local experiments with plastic lathouses were discussed with the aid of slides by R. Storkan, of the Neil McLean Co., San Francisco and Los Angeles. The cost and application methods of the recommended material, polyethylene, were told. A suitable frame for the plastic cloth would cost, Mr. Storkan declared, around \$3,000 per acre for material and labor, and \$400 to \$700 for the plastic, depending on the grade used. Yearly replacement of the covering, he estimated, would require an expenditure of from one and one-half to two and one-half cents per square foot.

After lunch, William Staiger, executive secretary of the Los Angeles County Farm Bureau, spoke on the topic, "The Farm Bureau and Los Angeles County Agriculture." Some idea of the scope of agriculture in the area can be understood from his quoted figures.

"The farm bureau and agriculture

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Maple, Silver. Mountain Ash, European.  
Oak, Pin and Red. Poplar, Lombardy.

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in Los Angeles county have grown together," he said. "In 1918 the gross income from agriculture was \$50,000,000, while in 1953 it had risen to \$241,000,000 despite all the obstacles left by nature. These obstacles we are overcoming with study and organization."

Looking into the future, Mr. Staiger foresaw more problems with taxes and assessments, declaring the property tax assessments should be made on present value rather than potential.

"We must investigate and develop new sources of water," he continued, "for unless we do so, considering the present rate of population growth, we will be out of water in 20 years."

### The Smog Problem

The first speaker of the afternoon group was Dr. James Kendrick, department of plant pathology, University of California at Riverside, who led an interesting discussion on the smog problem.

"Naturally the first premise is 'to get rid of it,' but since it is not that easy, our work so far is bent toward learning to live with it," he began. With slides he indicated the spread of smog, beginning with a small area confined in Los Angeles county, now extending from Ventura to the Mexican border and growing in intensity each year.

He described the experiments at Riverside on a bean crop with damage introduced by fumigation with air pollutants. Noteworthy conclusions reached so far indicate that ozone damages plants more than straight hydrocarbons, greenhouse material is more susceptible to damage than outdoor crops, heavy moisture tends to accentuate smog damage and damage varies in different varieties of one basic plant.

"Experiments with protective materials indicate that a dust of the chemical Zineb has done the best job in reducing damage," he advised, "and the dust gives better coverage than sprays. One must be sure to dust the underside of the foliage."

In explaining the source of damage, he told his listeners that the damaging material is a result of a reaction created by a mixture of ozone and hydrocarbons and not from one or the other. As a warning for the future, he predicted that because of the trend toward urbanization, smog damage could well become worldwide.

Discussing plant diseases, Dr. D. E. Munnecke, department of plant pathology, U.C.L.A., urged the nurserymen to keep their yards

free of diseased plants. "I have observed a tendency among growers of laxity about quickly dumping sickly plants. Unless this material is discarded, diseases will be transmitted to clean material in a short time," he added.

Continuing, he explained that plant disease-producing agents are spread or carried in the soil; in or on plant parts, seeds or plant debris, and by living plants to newly transplanted plants. Corrective practices include soil sterilization and treatment with chemical sprays.

"Another deplorable practice," he declared, "is the careless selection of 'mother' plants. Set aside your best disease-free plant material for propagation and keep it clean. But above all, quickly dispose of your dead and diseased plants."

#### Manipulating Plant Habits

In a highly technical discussion, Dr. Karl Hamner, department of botany, U.C.L.A., told of his department's experiments and conclusions with the manipulation of plant habits with artificial light, changing the "day length" and thus the flowering periods. He explained that the control of relative periods of light and darkness influences not only flowering, but also dormancy and tuberization. Such control may become important in commercial flower growing, he predicted. Work with seeds in cold storage indicates that temperature control used to produce dormancy often induces better flower quality.

Oscar A. Matkin, soil and plant laboratory, Orange, a recognized authority on soils, concluded the program with some new observations on soil textures of soil mixes. According to Mr. Matkin, the present trend in soils is toward mixtures rather than composted material.

He displayed samples of soil particles, such as clay, silt, fine sand, coarse sand and gravel, stating that all soils are made up of some combination of these ingredients. "Clays," he said, "do hold moisture but produce poor plant growth because of the lack of aeration, while straight coarse sand, at the other end of the scale, is too heavy and cannot retain moisture or nutrients. Thus a mixture is best, but each producer must experiment to determine what combination serves his purpose best."

At the conclusion of Mr. Matkin's talk, all speakers returned to the platform to answer direct questions from the audience.

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Prunus Pissardi—white tinted pink  
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Prunus Blireiana—double soft pink  
Prunus Thundercloud—dark foliage, white flower

##### Flowering Peach

Double Early Red  
Double Early Pink  
Double Late Red  
Helen Borchers—very double pink  
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TRANSPLANTS: Mahonia Aquifolium  
1-yr. transplants (undercut to insure a good root system.)

\$15.00 per 100

TERMS—Check is requested before shipment; or will ship C.O.D. if preferred. All orders shipped same day they are dug, via railway express.

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## CALIFORNIA NOTES

Ray Burr, who recently sold his interest in the Burr-Christian Nursery, Hayward, to his brother, is now associated with W. B. Clarke & Co., San Jose.

The H. A. Hyde Co., Watsonville, and the J. H. Wheeler Co. have contributed strawberry plants to the University of California for investigations. Other contributors to research in ornamentals include Paul Ecke, who donated poinsettia plants, and the Hercules Powder Co., which donated money for research on insecticides.

Arthur Cobbledick, landscape architect, Palo Alto, has made plans for the protection of the many large oaks in the new city off street parking area. It has been feared that the grading and filling necessary before paving the area will be fatal to the trees. Collars and wells are being set around the tree bases to try to prevent damage.

Christmas trees in the Bay area were less easily available than in recent years. Fewer persons were interested in the business because of the great losses suffered in the past. Most tree salesyards were sponsored by such organizations as the American Legion, the Boy and Girl Scouts and churches. Prices began about as last year; they seemed to go up when a shortage was threatened by a railroad strike, and then went below average the week before the holidays when there was an oversupply from trees brought in by train and by truck. There were about as many sold as the past year, but smaller-sized trees, fitting the smaller homes of today, were most popular.

"How to Sell" nursery stock was the theme of the program of the Peninsula chapter meeting, held at the Plantation grill, Los Altos, on January 6. Various members of the association told how they have moved larger than average quantities of ornamental nursery stock.

Wholesalers and retailers are interested in a new trend in retail nursery operations throughout California. In the past few years, there has been a tendency for retailers to carry a smaller inventory and thus to turn their capital over more often. The trend began soon after the war with the bedding plant operators who ran daily deliveries of bedding plants and who picked up at the next delivery all flats which did not seem to be up to standard. This resulted in much fresher and better-looking stock and faster turnover. It resulted in increased sales.

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|----------------------|-------------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Each in units of 10. | \$0.85                        | \$0.65                            | \$0.55                           | \$0.45                           | \$0.40                           |
| Australian Sauter    | ..                            | ..                                | ..                               | 120                              | 240                              |
| Babcock              | 50                            | 110                               | 50                               | ..                               | ..                               |
| Fay Elberta          | ..                            | 100                               | 200                              | 100                              | ..                               |
| Golden Jubilee       | 10                            | ..                                | ..                               | 20                               | 90                               |
| Halehaven            | ..                            | ..                                | 50                               | 80                               | ..                               |
| Indian Blood Cling   | ..                            | 60                                | 150                              | 80                               | 80                               |
| Indian Blood Free    | ..                            | ..                                | 40                               | 250                              | 250                              |
| J. H. Hale           | ..                            | 250                               | 700                              | 1500                             | 1000                             |
| Kim Elberta (early)  | 200                           | 250                               | 400                              | 600                              | 1000                             |
| Krummell             | ..                            | 40                                | 180                              | 250                              | 130                              |
| Lovell               | ..                            | 20                                | 50                               | 70                               | 100                              |
| Mayflower            | ..                            | ..                                | 60                               | 90                               | 120                              |
| Miller's Late        | ..                            | ..                                | ..                               | 250                              | ..                               |
| Muir                 | ..                            | 10                                | 20                               | 50                               | 60                               |
| Phillips             | ..                            | ..                                | 40                               | 250                              | 250                              |
| Red Bird             | ..                            | 20                                | 220                              | 270                              | 110                              |
| Redhaven             | ..                            | 210                               | 140                              | ..                               | 230                              |
| Salway               | ..                            | 80                                | 170                              | 170                              | 140                              |
| Sims                 | ..                            | 40                                | 120                              | 350                              | 290                              |
| Strawberry Cling     | ..                            | 30                                | 60                               | 280                              | 210                              |
| Strawberry Free      | 20                            | 240                               | 150                              | 140                              | 140                              |
| White Heath          | ..                            | ..                                | ..                               | 60                               | 320                              |

| PEARS                      | Jumbo<br>1-in. cal.<br>and up | 6 to 8 ft.<br>% to 1-<br>in. cal. | 6 to 8 ft.<br>% to %<br>in. cal. | 4 to 6 ft.<br>% to %<br>in. cal. | 2 to 4 ft.<br>% to %<br>in. cal. |
|----------------------------|-------------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Each in units of 10.       | \$0.95                        | \$0.75                            | \$0.65                           | \$0.55                           | \$0.45                           |
| Anjou                      | ..                            | 40                                | 50                               | 60                               | 80                               |
| Comice                     | 40                            | 100                               | 70                               | 50                               | 50                               |
| Kieffer                    | ..                            | ..                                | 210                              | 100                              | 80                               |
| Seckel                     | ..                            | ..                                | 90                               | 120                              | 40                               |
| Winter Bartlett            | ..                            | ..                                | 90                               | 150                              | 130                              |
| Winter Nells               | 10                            | 140                               | 90                               | 80                               | 140                              |
| CHERRIES                   | Each in units of 10.          | \$0.95                            | \$0.75                           | \$0.65                           | \$0.55                           |
| English Morello            | ..                            | 350                               | 300                              | ..                               | ..                               |
| Lambert                    | ..                            | ..                                | 300                              | 150                              | ..                               |
| SHADE TREES                | 12 to 14<br>ft.               | 10 to 12<br>ft.                   | 8 to 10<br>ft.                   | 6 to 8<br>ft.                    | 4 to 6<br>ft.                    |
| Each in units of 10.       | \$2.00                        | \$1.75                            | \$1.50                           | \$1.00                           | \$0.85                           |
| American Sycamore          | ..                            | ..                                | 150                              | ..                               | 140                              |
| European Sycamore          | 50                            | 800                               | 1300                             | ..                               | ..                               |
| Hardy Catalpa              | 30                            | 45                                | 60                               | 20                               | ..                               |
| Mississippi                | ..                            | ..                                | ..                               | ..                               | ..                               |
| Hackberry                  | ..                            | 30                                | 70                               | 120                              | 40                               |
| Modesto Ash                | ..                            | 240                               | 570                              | 720                              | 300                              |
| Silver Maple               | ..                            | 150                               | 300                              | 200                              | 90                               |
| White Birch                | 100                           | 200                               | 400                              | 120                              | 240                              |
| Paul's Scarlet<br>Hawthorn | ..                            | ..                                | \$1.75                           | \$1.50                           | \$1.30                           |
|                            | ..                            | ..                                | 70                               | 350                              | 200                              |

IF YOU CAN USE ANY OF THE ABOVE, PLEASE LET US HEAR FROM YOU.  
FLOWERING TREES AND GRAPEVINES ALSO AVAILABLE.



# Del Rancho Fortuna

(Located one mile south and two miles east of McFarland, Kern County, California)

P. O. BOX 548

McFARLAND, CALIFORNIA

Phone ... McFARLAND 81W



Now the retailers are beginning to demand more frequent deliveries of container plants and are making smaller purchases on each delivery. Retailers feel that this is a step forward in the merchandising of such material. Wholesalers seem to agree to the procedure, but refuse to consign stocks and are planning to increase their inventories of larger containers rather than have the retailers accumulate such material and carry it over from year to year. It will take several years for this change to become totally effective, but it is generally agreed that when it is fully operating, it will be better for the wholesaler, the retailer and the consumer.

Winter home gardening, which had become popular in the Bay area since World War II, suffered a setback in 1954. The fall was dry, and December was one of the coldest on record, with temperatures in the forties 11 days during the month.

DONALD'S NURSERY, formerly located in Buena Park, Calif., was moved recently to 1209 West Sixth street, Corona.

PORTAIRS GARDEN CENTER, 4201 Ayers street, Corpus Christi, Tex., was recently opened.

### CALIFORNIA DEPARTMENT OF AGRICULTURE MOVES

The California department of agriculture headquarters are being moved to the Agriculture building, 1220 North street, Sacramento, from State Office building No. 1. Some of the bureaus remaining in the old building, until quarters are prepared in the Agriculture building, are the bureaus of plant pathology, plant quarantine, rodent and weed control and seed inspection.

The department's laboratories, most of them in building 1, will not be moved until the Laboratory building on O street, adjoining the Agriculture building, is completed in the spring or early summer.

Among the bureaus remaining in the Mull building for several months are nursery service, market enforcement, field crops, weights and measures and shipping point inspection.

ROBERTS GARDEN CENTER, 620 North Broadway, Santa Maria, Calif., is the new name of the Broadway Nursery, recently purchased by Jack Roberts.

THE new building of Germain's, Inc., at Vernon, Calif., expected to be completed in February, will have 220,000 square feet of floor space.

### A. MCGILL & SON FAIRVIEW, ORE.

Wholesale only

FRUIT TREE SEEDLINGS  
FLOWERING ORNAMENTAL TREES  
SHADE TREES

Constant Vigilance Results  
in Quality Stock

Combination carloads to eastern  
distributing points.

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Eastern Representative:

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130 E. 233rd St.  
Euclid 23, O.

### America's Most Complete Collection of IRISES

Also DAY LILIES, POPPIES, LILIES and  
OTHER NEW PERENNIALS.

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WALTER MARK GARDENS, Box 38-AH, BORING, ORE.

### PICEA EXCELSA NIDIFORMIS

Transplants from open field beds,  
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3 to 4 ins. .... \$16.00 per 100  
Write for catalog listing over 325  
varieties of liners.

MITSCH NURSERY, AURORA, ORE.

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Rate: 35 cents per line, each insertion.

Minimum order, \$3.50

Instructions for the next issue must be received by Friday, January 14.

## AZALEAS

### AZALEAS

Hino-Crimson, the choice of all who see its deep crimson flowers. Thousands of other beautiful Kurumes, Glenn Dales, etc. Dense, bushy, well-budded—for landscaping and forcing. Book your orders now as they sell out early. Send for new price list of azaleas and large assortment of choice ornamentals.

THE TANKARD NURSERIES  
Exmore, Virginia

### AZALEAS

Mollis and atlacarense, seedlings Per 100  
2 to 4 ins. single stem.....\$ 5.00  
2-year transplants.....15.00

HAZEL DELL GARDENS, CANBY, ORE.

FIELD-GROWN AZALEAS.  
ALL SIZES AND VARIETIES  
SPECIAL PRICE ON LARGE LOTS  
Write for list on lining-out stock.  
LONGWOOD NURSERIES  
P. O. BOX 407  
MOBILE 3, ALABAMA

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Rooted cuttings, ready for potting.  
Hinodegiri, Coral Bells, Sweetheart Supreme.  
\$6.00 per 100, \$50.00 per 1000.  
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AZALEA FORMOSA, ALL SIZES.  
Azaleas, many other varieties.  
Evergreens and ornamentals.  
Write for special quotations.  
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INTRODUCING THE NEW GREAT  
NORTHERN SEEDLESS BLUE GRAPE,  
nearly as large as Concord, but much sweeter,  
hardier, earlier and heavier bearing than  
Concord. Just as vigorous and healthy.  
Ripens with Moore's Early, 15 years under  
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each; \$7.25 for 2-yr. cuttings, 50c each; 3 for  
\$1.25. 5 per cent discount for cash or free  
baling. Plants or cuttings that die, replaced  
at 1/2 price.

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220 N. 5th St. Mankato, Minn.

SCHWAB GOOSEBERRIES, large as  
plums, new seedling (world's largest Goose-  
berry). Berries often 1 1/2-in. in diameter,  
highest quality, hardly very productive, very  
sweet, 1-yr. heavy, \$4.50 per 10; 2-yr. light,  
\$7.50 per 10; bearing size, \$10.00 per 10. 5  
per cent discount for cash or free baling.  
All plants that die replaced at half price.

SCHWAB FRUIT FARM & NURSERY  
220 N. 5th St. Mankato, Minn.

BERRIES, Cumberland Raspberry and  
Thornless Boysenberry, 1-year tips, \$4.00  
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### TUBEROUS BEGONIAS

Giant double-flowering Camellia-type, 8  
colors.

|                    | Per 100 | Per 1000 |
|--------------------|---------|----------|
| 1 1/4 to 1 1/2-in. | \$ 5.50 | \$ 45.00 |
| 1 1/2 to 2-in.     | 8.50    | 75.00    |
| 2-in. up           | 12.50   | 115.00   |
| MAMMOTH, 3-in. UP  | 25.00   | 200.00   |

Double-flowering Fimbriata Carnation-type,  
6 colors.

|                    | Per 100 | Per 1000 |
|--------------------|---------|----------|
| 1 1/4 to 1 1/2-in. | \$ 7.00 | \$ 60.00 |
| 1 1/2 to 2-in.     | 11.50   | 100.00   |
| 2-in.              | 15.00   | 140.00   |

Minimum order \$5.00.

LOUIS DANK

1170 Broadway, New York 1, N. Y.

CHOICE COMMERCIAL FLOWER BULBS  
For growing or resale. Write for current  
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Send for our new wholesale listing of 40  
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The finest of commercial named varieties.  
Over 50 varieties. Fully upgraded.

|                           | Per 100 | Per 1000 |
|---------------------------|---------|----------|
| No. 3, 3 1/2 to 1 1/4-in. | \$ 7.00 | \$ 60.00 |
| (mainly mixed)            | 12.00   | 110.00   |
| No. 2, 1 to 1 1/2-in.     | 18.00   | 160.00   |
| No. 1, 1 1/2 to 2 1/2-in. | 25.00   | 230.00   |
| Jumbo, 2 1/2 to 3 1/2-in. | 27.00   | 250.00   |

Orders totaling 1000 bulbs, 10 per cent  
discount.  
Minimum order \$5.00.  
Send for our color chart of 44 varieties.

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The lovely "GRAND OPERA SERIES."  
These dwarf growing, pastel colors are  
bringing Cannas back into popularity.  
AIDA, old rose and salmon  
LA BOHEME, peach pink  
LA TRAVIATA, old rose  
MIGNON, orange pink  
MME. BUTTERFLY, shell pink  
RIGOLETTO, clear yellow  
3 eyes or more, F.O.B. San Marcos.  
1 to 25, 30c each; 100 or more, 27 1/2c.  
On small lots, add postage. Cheapest way.  
SARVER NURSERY CO.  
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The best commercial varieties.  
Per 100 Per 1000  
1 1/4 to 1 1/2-in. \$ 7.50 \$ 65.00  
1 1/2 to 2-in. 14.00 130.00  
2-in. UP 22.00 195.00  
Mammoth, 2 1/4-in. up 35.00 300.00  
Minimum order \$5.00.

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### CAMELLIA SASANQUA LINERS.

#### HEAVY, BED-GROWN

|               | 6 to 8 ins. | 8 to 12 ins. | 12 to 18 ins. |
|---------------|-------------|--------------|---------------|
| Annette       | \$0.15      | \$0.17 1/2   | \$0.25        |
| Cinderella    | .15         | .17 1/2      | .25           |
| Cleopatra     | .15         | .17 1/2      | .25           |
| Mine-no-yuki  | .15         | .17 1/2      | .25           |
| Negishi-ko    | .15         | .17 1/2      | .25           |
| Rosea         | .15         | .17 1/2      | .25           |
| Setsugekka    | .15         | .17 1/2      | .25           |
| Texas Star    | .15         | .17 1/2      | .25           |
| Daydream      | .25         | .30          | .45           |
| Shishifukujin | .25         | .30          | .45           |
| Hinode-gumo   | .25         | .30          | .45           |

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Semmes, Ala.

### FIELD-GROWN CAMELLIAS

#### ALL SIZES AND VARIETIES

#### SPECIAL PRICE ON LARGE LOTS

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P. O. BOX 407  
MOBILE 3, ALABAMA

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### COTONEASTER PRAECOX

This is one of the hardest Cotoneasters  
which went through 20 degrees below zero  
without any harm. It has large berries like  
cranberries which color up in the middle of  
August and remain on until very late  
fall. It grows rather flat and makes an ideal  
plant to combine with foundation plantings,  
especially with ranch-type houses. We can  
offer the following for 1955:

|  | Per 100 | Per 1000 |
|--|---------|----------|
| Strong, 1-year seedlings,<br>branched, 4 to 5 ins.       | \$25.00 | \$225.00 |
| Transplants, 2-year,<br>8 to 12 ins.                     | 50.00   | 500.00   |
| Cotoneaster horizontalis                                 | 10.00   | 90.00    |
| strong 1-year seedlings                                  | 10.00   | 90.00    |
| Cotoneaster divaricata, 1-year<br>seedlings, 6 to 8 ins. | 10.00   | 90.00    |

C. HOOGENDOORN

Turner Rd., Newport, R. I.

## EVERGREENS

### JUNIPER GRAFTS

Canaertii, glauca, Burki, Keteleeri, Dundee,  
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Priced, 40c each; no discount. Terms: One-  
fourth cash, with order and balance before  
shipping date, plus packing at cost. All cash  
with order earns free packing. Order at  
once. Two-thirds sold out now. When better  
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T. C. CRUME NURSERY AND  
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TERMS: SHIPMENTS made on open ac-  
count if satisfactory credit is established,  
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C.O.D. shipments made.

PACKING costs will be added (on a cost  
basis) to your invoice. We take every pre-  
caution to pack our stock so it will reach you  
in the best of condition.

GIVE US specific instructions and routing.  
If by truck or R.R. freight, be sure to give  
names of carriers and routing. This is im-  
portant. Shipments are made same day they  
are packed.

ALL EVERGREENS are priced per each  
in quantities of 10, 100 and 1000. 25 of any  
grade or variety at 100 rate. 250 of any  
grade and variety at 1000 rate.

### FIELD-GROWN EVERGREENS

|  | Each   | 10     | 100     | 1000 |
|--|--------|--------|---------|------|
| ABIES CONCOLOR, Concolor Fir                 |        |        |         |      |
| 500 6 to 9 ins., TTT.                        | \$0.40 | \$0.35 | \$0.30  |      |
| ABIES DOUGLASSI, Douglas Fir                 |        |        |         |      |
| 100 6 to 9 ins., TTT.                        | .30    | .25    | .20     |      |
| JUNIPERUS HETZL, Hetz Blue Juniper           |        |        |         |      |
| 600 12 to 15 ins., TTT.                      | .85    | .80    | .75     |      |
| JUNIPERUS HIBERNICA FASTIGIATA,              |        |        |         |      |
| Irish Juniper                                |        |        |         |      |
| 500 12 to 15 ins., TTT.                      | .60    | .55    | .50     |      |
| 1200 9 to 12 ins., TTT.                      | .50    | .45    | .40     |      |
| JUNIPERUS PFITZERIANA,                       |        |        |         |      |
| Pfitzer Juniper                              |        |        |         |      |
| 2500 12 to 15 ins., TTT.                     | .85    | .80    | .75     |      |
| 7000 9 to 12 ins., TTT.                      | .65    | .60    | .55     |      |
| JUNIPERUS SABINA, Savin Juniper              |        |        |         |      |
| 300 15 to 18 ins., TTT.                      | 1.20   | 1.10   | 1.00    |      |
| 2000 9 to 12 ins., TTT.                      | .65    | .60    | .55     |      |
| 1000 6 to 9 ins., TTT.                       | .45    | .40    | .35     |      |
| JUNIPERUS SCOPULORUM, Silver Cedar           |        |        |         |      |
| 2500 12 to 15 ins., R.P.                     | .15    | .12    | .10     |      |
| 5000 9 to 12 ins., R.P.                      | .12    | .10    | .08     |      |
| 5000 6 to 9 ins., R.P.                       | .12    | .10    | .08     |      |
| JUNIPERUS VIRGINIANA, Red Cedar              |        |        |         |      |
| 5000 18 to 24 ins., R.P.                     | .35    | .30    | .25     |      |
| 15000 12 to 18 ins., R.P.                    | .30    | .25    | .20     |      |
| PICEA CANADENSIS ALBA, White Spruce          |        |        |         |      |
| 2500 12 to 15 ins., R.P.                     | .15    | .12    | .10     |      |
| 7500 9 to 12 ins., R.P.                      | .13    | .10    | .08     |      |
| PICEA EXCELSA, Norway Spruce                 |        |        |         |      |
| 1600 12 to 15 ins., R.P.                     | .20    | .18    | .15     |      |
| 10000 6 to 9 ins., R.P.                      | .09    | .07    | .05     |      |
| 2000 4 to 6 ins., R.P.                       | .07    | .05    | .03 1/2 |      |
| 400 15 to 18 ins., TTT.                      | .50    | .45    | .40     |      |
| PICEA PUNGENS GLAUCA,                        |        |        |         |      |
| Colorado Blue Spruce                         |        |        |         |      |
| 6000 6 to 9 ins., R.P.                       | .25    | .20    | .18     |      |
| 2000 4 to 6 ins., R.P.                       | .15    | .12    | .10     |      |
| Top and root growth is equal to transplants. |        |        |         |      |
| PINUS BANKSIANA, Jack Pine                   |        |        |         |      |
| 2000 12 to 18 ins., R.P.                     | .20    | .15    | .12     |      |
| 2000 9 to 12 ins., R.P.                      | .10    | .08    | .06     |      |
| PINUS EDULIS, Nut or Pinon Pine              |        |        |         |      |
| 1700 9 to 12 ins., R.P.                      | .15    | .12    | .10     |      |
| 1000 6 to 9 ins., R.P.                       | .08    | .07    | .06     |      |
| PINUS NIGRA, Austrian Pine                   |        |        |         |      |
| 20000 12 to 18 ins., R.P.                    | .30    | .25    | .20     |      |
| 35000 9 to 12 ins., R.P.                     | .12    | .10    | .08     |      |
| 20000 6 to 9 ins., R.P.                      | .09    | .07    | .05     |      |
| PINUS PONDEROSA, Bull                        |        |        |         |      |
| Pine or Western Yellow                       |        |        |         |      |
| 13000 12 to 18 ins., R.P.                    | .30    | .25    | .20     |      |
| 20000 9 to 12 ins., R.P.                     | .12    | .10    | .08     |      |
| 7000 6 to 9 ins., R.P.                       | .09    | .07    | .05     |      |
| PINUS SYLVESTRIS, Scotch Pine                |        |        |         |      |
| 4000 12 to 18 ins., R.P.                     | .20    | .17    | .15     |      |
| 10000 9 to 12 ins., R.P.                     | .10    | .08    | .07     |      |
| 4000 6 to 9 ins., R.P.                       | .08    | .06    | .05     |      |
| THUJA OCCIDENTALIS WOODWARDI                 |        |        |         |      |
| (Woodward's Globe)                           |        |        |         |      |
| 400 12 to 15 ins., TTT.                      | .85    | .80    | .75     |      |
| 1500 9 to 12 ins., TTT.                      | .50    | .45    | .40     |      |
| 1500 6 to 9 ins., TTT.                       | .40    | .35    | .30     |      |
| THUJA ORIENTALIS COMPACTA                    |        |        |         |      |
| (Chinese Arborvitae)                         |        |        |         |      |
| 5000 9 to 12 ins., R.P.                      | .15    | .12    | .10     |      |
| 5000 6 to 9 ins., R.P.                       | .12    | .09    | .07     |      |
| THUJA ORIENTALIS                             |        |        |         |      |
| (Chinese Arborvitae)                         |        |        |         |      |
| 4000 12 to 15 ins., R.P.                     | .15    | .12    | .10     |      |
| 4000 9 to 12 ins., R.P.                      | .12    | .09    | .07     |      |
| 3000 6 to 9 ins., R.P.                       | .07    | .06    | .05     |      |

PLUMFIELD NURSERIES, INC.

Fremont, Neb.

### STRONG LINERS

|   | 2-yr.  | 3-yr. | 4-yr. |
|---|--------|-------|-------|
| Globe Arborvitae                              | \$0.40 |       |       |
| Pfitzer Juniper, 8 to 12 ins.                 | .40    |       |       |
| Pyramidal Arborvitae, 8 to 12 ins.            |        |       |       |
| 2-yr., TT.                                    | .40    |       |       |
| Pieris japonica, 8 to 10 ins., 3-yr., TT.     | .35    |       |       |
| Leucothoe Catesbaei, 6 to 8 ins., 3-yr., TT.  | .25    |       |       |
| Pyracantha Lalandi, 12 to 15 ins., 2-yr., TT. | .50    |       |       |
| Taxus Sprenger, 8 to 12 ins., 3-yr., TT.      | .50    |       |       |
| Taxus Hicksii, 8 to 12 ins., 3-yr., TT.       | .50    |       |       |
| Azalea Mollis, 8 to 12 ins., 3-yr., TT.       | .30    |       |       |
| Over 200                                      | .25    |       |       |

DUGAN NURSERIES  
Center St. Perry, O.



## SEEDLINGS FOR SPRING.

| Variety, age and size                        | 100    | 1000    |
|--|--------|---------|
| Scotch Pine, 2-yr., 2 to 4 ins.              | \$2.00 | \$10.00 |
| Scotch Pine, 2-yr., 4 to 8 ins.              | 4.00   | 20.00   |
| Riga Scotch Pine, 2-yr., 2 to 4 ins.         | 2.00   | 15.00   |
| Riga Scotch Pine, 2-yr., 4 to 8 ins.         | 5.00   | 25.00   |
| Austrian Pine, 2-yr., 3 to 6 ins.            | 4.00   | 20.00   |
| American Red Pine, 2-yr., 2 to 4 ins.        | 3.00   | 15.00   |
| American Red Pine, 3-yr., 4 to 6 ins.        | 5.00   | 25.00   |
| Ponderosa Pine, 2-yr., 3 to 6 ins.           | 4.00   | 20.00   |
| Mugho Pine, dwarf, 3-yr., 2 to 5 ins.        | 5.00   | 25.00   |
| Mugho Pine, dwarf, 4-yr., 4 to 7 ins.        | 7.00   | 35.00   |
| White Pine, 2-yr., 3 to 6 ins.               | 4.00   | 20.00   |
| Norway Spruce, 2-yr., 2 to 4 ins.            | 3.00   | 15.00   |
| Norway Spruce, 2-yr., 4 to 8 ins.            | 5.00   | 25.00   |
| White Spruce, 2-yr., 2 to 4 ins.             | 3.00   | 15.00   |
| Red Spruce, 2-yr., 2 to 6 ins.               | 4.00   | 20.00   |
| Black Hills White Spruce, 2-yr., 2 to 6 ins. | 4.00   | 20.00   |
| Blue Spruce (Colorado), 2-yr., 2 to 4 ins.   | 4.00   | 20.00   |
| Blue Spruce (Colorado), 2-yr., 4 to 7 ins.   | 6.00   | 30.00   |
| Douglas Fir, 2-yr., 3 to 5 ins.              | 4.00   | 20.00   |
| American Arborvitae, 3-yr., 3 to 6 ins.      | 5.00   | 25.00   |

## SPECIAL SEEDLINGS

|  |       |       |
|--|-------|-------|
| Mugho Pine, 4-yr., 7 to 10 ins.            | 11.00 | 55.00 |
| American Red Pine, 3-yr., 6 to 10 ins.     | 6.00  | 30.00 |
| Norway Spruce, 3-yr., 5 to 10 ins.         | 8.00  | 40.00 |
| White Spruce, 3-yr., 4 to 8 ins.           | 8.00  | 40.00 |
| Red Spruce, 4-yr., 6 to 10 ins.            | 8.00  | 40.00 |
| Blue Spruce (Colorado), 3-yr., 3 to 6 ins. | 8.00  | 40.00 |
| American Arborvitae, 3-yr., 6 to 10 ins.   | 8.00  | 40.00 |
| Austrian Pine, 3-yr., 10 ins.              | 8.00  | 35.00 |

## TRANSPLANTS

|  |       |       |
|--|-------|-------|
| Scotch Pine, 2-1, 3 to 6 ins.            | 6.00  | 30.00 |
| Scotch Pine, 2-2, 5 to 10 ins.           | 10.00 | 50.00 |
| Austrian Pine, 2-2, 5 to 10 ins.         | 9.00  | 45.00 |
| Red Pine (American), 2-2, 5 to 10 ins.   | 8.00  | 40.00 |
| Blue Spruce (Colorado), 2-2, 3 to 7 ins. | 11.00 | 55.00 |
| Norway Spruce, 2-2, 3 to 6 ins.          | 5.00  | 25.00 |
| 2-2, 6 to 10 ins.                        | 11.00 |       |

Some items listed are in limited supply. May we suggest booking your order early to be assured of filling your needs. Pennsylvania orders, add 1 per cent sales tax or exemption certificate. Cash or 25 per cent deposit with order, balance C.O.D. 5 per cent discount on quantities of 25,000.

Agent for root-spread tree planter. Now there is a handy, fast (over 1000 per hour) tree seedling planter for reforestation, Christmas tree and ornamental planting. Made for Ford Ferguson, 3 point hitch. For picture and information, write

R.F.D. 3 SAM DIBLE NURSERY Shelocta, Pa.

## EVERGREEN LINERS AND TRANSPLANTS

| Each—Per 100   | Per 1000      |
|--|---------------|
| Arborvitae, American, dark green; 1-yr.                  | \$0.20 \$0.18 |
| Arborvitae, Globe Woodward, 4 to 5 ins.                  | .20 .18       |
| Arborvitae, pyramidal, 1-yr., 5 to 6 ins.                | .22 .20       |
| Euonymus alatus compactus, 2-yr. pots, 4 to 5 ins.       | .18 .16       |
| Juniperus chinensis Pfitzeriana, 1-yr. pots, 6 to 7 ins. | .24 .22       |
| Juniperus glauca Hetzel, 1-yr., 5 to 6 ins.              | .20 .18       |
| Taxus cuspidata, 2-yr., 6 to 9 ins.                      | .24 .22       |
| Korean Broom, 2-yr., 5 to 6 ins.                         | .22 .18       |

## HEAVY ROOTED CUTTINGS

| From flats, rooted outside in lath house. | Delivery now. |
|---|---------------|
| Boxwood, Korean, hardy                    | \$0.09 \$0.08 |
| Boxwood, sempervirens                     |               |
| 2 to 3 ins.                               | .07 .06       |
| Euonymus alatus compactus, 3 to 4 ins.    | .09 .08       |
| Euonymus erectus, 3 to 4 ins.             | .07 .06       |
| Euonymus patens, 3 to 4 ins.              | .07 .06       |
| Euonymus vegetus, 5 ins.                  | .07 .06       |
| Juniper, Swedish, 4 to 5 ins.             | .10 .09       |
| Juniperus chinensis Pfitzeriana, 6 ins.   | .13 .12       |
| Juniperus glauca Hetzel, 4 to 5 ins.      | .10 .09       |
| Taxus cuspidata, 4 to 5 ins.              | .10 .09       |
| Taxus Intermedia, 4 to 5 ins.             | .11 .10       |
| Taxus media, spreading, 3 to 4 ins.       | .11 .10       |

Delivery June 30, 1955

|   |         |
|---|---------|
| Arborvitae, pyramidal, 5 ins.   | .11 .10 |
| Arborvitae, globe, 3 to 4 ins.  | .10 .09 |
| Arborvitae, American; dark green; 5 ins.  | .10 .09 |
| Arborvitae elegantissima, 5 ins.  | .10 .09 |
| Taxus Hicksi, 5 to 6 ins.   | .11 .10 |
| Terms: 2% discount and free packing for cash with order. Our stock guaranteed 100% satisfactory or return within 5 days for full refund, plus full shipping charges paid. |         |
| 250 plants at 1000 rate.  |         |
| MIAMI NURSERY CO.   |         |
| Tipp City, O.   |         |

## EVERGREEN SEEDLINGS

| Per 100                               | Per 1000       |
|---------------------------------------|----------------|
| Colo. Blue Spruce, 3-yr., 3 to 6 ins. | \$4.50 \$40.00 |
| Norway Spruce, 3-yr., 6 to 15 ins.    | 4.00 30.00     |
| Englemann Spruce, 4-yr., 4 to 8 ins.  | 3.50 35.00     |
| Austrian Pine, 3-yr., 6 to 12 ins.    | 4.50 35.00     |
| Scotch Pine, 3-yr., 6 to 12 ins.      | 4.00 35.00     |
| Red Pine, 3-yr., 6 to 10 ins.         | 3.50 30.00     |
| Douglas Fir, 3-yr., 5 to 10 ins.      | 5.00 45.00     |

Write for new spring list.

## ECCLES NURSERIES

Rimersburg, Pa.

## ROOTED CUTTINGS

| SIZE              | Per 100 | 1000   |
|-------------------|---------|--------|
| Arborvitae, Globe | \$0.09  | \$0.08 |
| Arborvitae, Green |         |        |
| Niagara           | .08 .07 |        |
| Arborvitae        |         |        |
| Pyramidalis       | .09 .08 |        |
| Juniper, Andorra  | .12 .11 |        |
| Juniper, Pfitzer  | .12 .11 |        |
| Juniperus Hetzel  | .12 .11 |        |
| Taxus Browni      | .10 .09 |        |
| Taxus capitata    |         |        |
| (leaders only)    | .16 .14 |        |
| Taxus cuspidata   | .09 .08 |        |
| Taxus Hicksi      | .09 .08 |        |

## PLANT BANDS

| 1-YEAR BEDS     | 2-YEAR BEDS |
|-----------------|-------------|
| Taxus cuspidata | .15 .14     |
| Taxus Hicksi    | .15 .14     |
| Taxus capitata  | .24 .22     |
| Pyramidal       |             |
| Arborvitae      | .18 .16     |

| 6-YEAR                                  | GRAFTED SPRUCE |
|---|----------------|
| Taxus Hicksi (bare-root), 12 to 15 ins. | \$1.00 each    |
| Koster Blue Spruce, 2 1/2-in. pots      | \$1.25 each    |
| Moerheim Blue Spruce, 2 1/2-in. pots    | 1.25 each      |

50 at 100 rate; 300 at 1000 rate. Packing at cost. Quantities of 5000 or more, write for special quotations.

## DRAKE'S NURSERIES

G-4342 Branch Road Flint 6, Mich.

## LINING-OUT STOCK

| Per 100   | Per 1000       |
|---|----------------|
| Scotch Pine, Available in certified Riga, Dark Green        |                |
| French, certified German, Polish and Austrian Hill strains. |                |
| 2-0, 3 to 6 ins.  | \$2.50 \$15.00 |
| 2-0, 3 to 8 ins.  | 3.00 18.00     |
| Austrian Pine, 2-0, 2 to 4 ins.                             | 3.00 18.00     |
| Mugho Pine, 2-0, 2 to 4 ins.                                | 3.50 20.00     |
| Red Pine, 2-1, 4 to 6 ins.                                  | 5.00 35.00     |
| Black Hill Spruce, 2-0, 2 to 4 ins.                         | 2.50 15.00     |
| Black Spruce, 2-0, 2 to 4 ins.                              | 3.50 20.00     |
| Colorado Blue Spruce, 3-0, 4 to 8 ins.                      | 5.00 25.00     |
| Norway Spruce, 2-0, 2 to 4 ins.                             | 3.50 20.00     |
| White Spruce, 2-1, 3 to 4 ins.                              | 5.00 35.00     |
| American Arborvitae, 2-1, 3 to 4 ins.                       | 5.00 35.00     |
| 2-1, 3 to 4 ins.  | 5.00 35.00     |

Terms: 2 per cent cash with order.

Potted Juniper, Arborvitae, Spruce, etc., available at nursery. Write for complete list.

## JOHN G. ZELENKA

EVERGREEN NURSERY Rt. 2, Box 291 Grand Haven, Mich.

## JUNIPERS

| Per 100                                | Per 1000 |
|--|----------|
| JUNIPER, ANDORRA. Heavy, once trimmed. |          |
| 9 to 12 ins. TT. field-grown           | \$40.00  |
| 12 to 15 ins. TT. field-grown          | 50.00    |
| JUNIPER, PFITZER                       |          |
| 8 to 10 ins. TT. beds                  | 20.00    |
| JUNIPER, PFITZER. Heavy, once trimmed. |          |
| 9 to 12 ins. TT. field-grown           | 30.00    |
| 12 to 15 ins. TT. field-grown          | 55.00    |
| 15 to 18 ins. TT. field-grown          | 65.00    |
| JUNIPER, SAVIN. Heavy, once trimmed.   |          |
| 9 to 12 ins. TT. field-grown           | 40.00    |
| 12 to 15 ins. TT. field-grown          | 50.00    |

All our grafts are on Juniper Hetzel understock. We find they mature earlier and the finished stock can be handled with a smaller ball.

Canaert Hillbush Mascola Robin Hood Dundee Hill's Pyramidal Spruce, Moerheim

Grafts, out of 3-in. rosepots.....\$100.00

TAXUS, cuspidata and Hicksi.

Rooted cuttings.....10.00

9 to 12 ins. 2 1/2-in. pots.....17.50

12 to 15 ins. 3-in. pots.....25.00

12 to 15 ins. 3-in. pots.....35.00

Packing and boxing at cost.

NEBRASKA NURSERIES, INC.

4815 "O" St. Lincoln, Neb.

## LINING-OUT STOCK

| Each  | Each          |
|---|---------------|
| Per 100   | Per 1000      |
| Illex rotundifolia, TT. bushy, 6 to 9 ins.                | \$0.40 \$0.35 |
| Illex rotundifolia, TT. bushy, 9 to 12 ins.               | .50 .45       |
| Andromeda Catesbaei (Leucothoe), TT. bushy, 8 to 10 ins.  | .40 .35       |
| Andromeda Catesbaei (Leucothoe), TT. bushy, 10 to 12 ins. | .50 .45       |

Five or ten dollar sample sent upon request.

GERARD K. KLYN, INC.

Mentor, O.

## DELIVERY, SPRING 1955

|  |        |
|--|--------|
| 754 Buxus sempervirens, 2 1/2-in. pots                       | \$4.12 |
| 400 Euonymus vegetus, 2 1/2-in. pots                         | .12    |
| 200 Euonymus radicans, 2 1/2-in. pots                        | .12    |
| 200 Euonymus japonica, 2 1/2-in. pots                        | .12    |
| 100 Forsythia Spring Glory, 2 1/2-in. pots                   | .15    |
| 100 Forsythia Lynwood Gold, 2 1/2-in. pots                   | .15    |
| 164 Ilex East Palatka, 2 1/2-in. pots                        | .17    |
| 500 Ilex opaca (selected berried), 2 1/2-in. pots            | .25    |
| 208 Jasminum floridum, 2 1/2-in. pots                        | .12    |
| 100 Jasminum nudiflorum, 2 1/2-in. pots                      | .12    |
| 500 Laurocerasus schipkaensis, 2 1/2-in. pots                | .20    |
| 700 Ligustrum nepalense, 2 1/2-in. pots                      | .12    |
| 500 Ilex Burfordi, 1-yr., 2 1/2-in. pots                     | .15    |
| 252 Ilex Howardi, 2 1/2-in. pots                             | .17    |
| 500 Andorra Juniper, 1-yr., 2 1/2-in. pots                   | .17    |
| 500 Hetz Juniper, 1-yr., 2 1/2-in. pots                      | .17    |
| 308 Pyracantha, upright; orange berry; 2 1/2-in. pots        | .12    |
| 140 Pyracantha, upright; orange berry; 1-yr., 2 1/2-in. pots | .17    |
| 360 Pyracantha Lalandi, 1-yr., 2 1/2-in. pots                | .17    |
| 500 Viburnum Burkwodii, 2 1/2-in. pots                       | .15    |
| 2000 Taxus cuspidata, 2-yr., 3 1/2 x 4 ins.                  | .33    |
| 1000 Taxus cuspidata, 2-yr., 2 1/2-in. pots                  | .22    |

Small orders, include prepaid parcel post; otherwise we ship express collect.

THE LEICHHARDT HILLVIEW NURSERY

Nashville Rd. Bowling Green, Ky.

Phone 2-2441

## EVERGREENS, ROOTED CUTTINGS

| 100                                      | 1000           |
|--|----------------|
| Taxus Browni, 5 to 6 ins.                | \$9.00 \$50.00 |
| Taxus cuspidata, 5 to 8 ins.             | 8.00 70.00     |
| Taxus capitata, 5 to 6 ins.              | 10.00 90.00    |
| Taxus Hatfieldi, 6 to 9 ins.             | 9.00 80.00     |
| Taxus Hicksi, 6 to 8 ins.                | 9.00 80.00     |
| Taxus Waymanii, 5 to 6 ins.              | 9.00 80.00     |
| Taxus Wardi, 5 to 6 ins.                 | 9.00 80.00     |
| Juniperus (Andorra) plumosa, 4 to 5 ins. | 8.00 70.00     |
| Juniperus communis depressa, 4 to 5 ins. | 8.00 70.00     |
| Juniperus Hetzel glauca, 6 to 8 ins.     | 8.00 70.00     |
| American Arborvitae, 6 to 8 ins.         | 8.00 70.00     |
| Pyramidal Arborvitae, 4 to 5 ins.        | 8.00 70.00     |
| Globe Arborvitae, 4 to 5 ins.            | 8.00 70.00     |
| Retinospora, 4 to 5 ins.                 | 8.00 70.00     |

## 1-YEAR TRANSPLANTS

|             |              |
|-------------|--------------|
| Retinospora | 16.00 150.00 |
| Retinospora | 16.00 150.00 |

## TERMS

Orders under \$100.00, cash with order, please.

Orders over \$100.00, 1/2 deposit with order.

Phone: Oil City 76-351

## NEIDEL'S NURSERY AND GREENHOUSE

Mtd. Rt. 4, Hasson Heights, Oil City, Pa.

## ROOTED CUTTINGS

| Per 100                                       | Per 1000       |
|---|----------------|
| Arborvitae, dark green American, 6 to 10 ins. | \$9.00 \$80.00 |
| Arborvitae, Globe, 4 to 8 ins.                | 9.00 80.00     |
| Arborvitae, Pyramidal, 6 to 10 ins.           | 9.00 80.00     |
| Juniper, Pfitzer, 6 to 10 ins.                | 10.00 95.00    |
| Juniper, Hetzel glauca, 6 to 10 ins.          | 9.00 80.00     |
| Juniper, Sabina, 6 to 10 ins.                 | 9.00 80.00     |
| Juniper, Von Ehron, 6 to 10 ins.              | 9.00 80.00     |
| Juniper, Andorra, 6 to 10 ins.                | 9.00 80.00     |
| Taxus cuspidata, 6 to 10 ins.                 | 9.00 80.00     |
| Taxus Hicksi, 6 to 10 ins.                    | 9.00 80.00     |

## FIELD-GROWN EVERGREEN LINERS

2-yr. in beds. Per 100

Taxus cuspidata, 8 to 12 ins. \$25.00

Arborvitae, dark green American, 8 to 12 ins. 25.00

Arborvitae, Pyramidal, 8 to 12 ins. 25.00

Spring delivery. Cash with order earns free packing.

## DE WINTER'S NURSERY

653 Port Sheldon Rd. Grandville, Mich.

## FIELD-GROWN AND POTTED EVERGREEN LINERS

Per 100

Andorra Juniper, 1-yr., f.g., 6 to 12 ins. \$12.00

2-yr., f.g., X, 8 to 12 ins. 15.00

Pfitzer Juniper, 2-yr., f.g., 8 to 12 ins. 25.00

3-yr., f.g., X, 8 to 12 ins. 35.00

Sylvester Juniper, 2 1/2-in. pots. 15.00

Von Ehron Juniper, 1-yr., f.g., 8 to 12 ins. 15.00

Waukegan Juniper, 1-yr., f.g., 8 to 12 ins. 12.00

Chamaecyparis cyano viridis, 2 1/2-in. pots 12.00

Chamaecyparis plumosa aurea, 2 1/2-in. pots 15.00

Euonymus patens, 2-yr., f.g., XX, 8 to 12 ins. 15.00

2-yr., f.g., XX, 12 to 15 ins. 20.00

Jasminum floridum, Jasminum nudiflorum, 2-yr., f.g., XX, 12 to 15 ins. 15.00

Mahonia Bealei, 2 1/2-in. pots. 20.00

## ATHENS NURSERY CO.

Athens, Ala.

## EVERGREENS

Per 100 Per 1000

Scotch Pine, 2-yr., 3 to 4 ins. \$10.00

2-yr., 3 to 6 ins. 3.00 15.00

2-yr., 6 to 9 ins. 3.50 20.00

Scotch Pine (Riga) 2-yr., 4 to 8 ins. 3.50 20.00

3-yr., 5 to 10 ins. 4.00 25.00

Colorado Blue Spruce 2-yr., 1 to 4 ins. 3.50 20.00

## CHAPMAN'S NURSERY

553 Church St. Indiana, Pa.

## EVERGREENS—Continued

| 4-YEAR EVERGREEN SEEDLINGS |             |         |         |
|----------------------------|-------------|---------|---------|
|                            | In. Per 100 | 1000    |         |
| Balsam Fir                 | 4 to 7      | \$ 8.75 | \$43.75 |
| Black Hills Spruce         | 6 to 14     | 15.00   | 75.00   |
| Mugho Pine (Cert. Tyr.)    | 8 to 12     | 12.00   | 60.75   |
| 3-YEAR SEEDLINGS           |             |         |         |
| Douglas Fir (Blue)         | 6 to 12     | 10.75   | 53.75   |
| Norway Spruce              | 6 to 12     | 9.00    | 45.00   |
| 2-YEAR SEEDLINGS           |             |         |         |
| Austrian Pine (Cert. Alps) | 4 to 9      | 7.00    | 35.75   |
| Jap. Black Pine            | 7 to 14     | 7.50    | 37.50   |
| Scotch Pine (Cert. Alps)   | 6 to 12     | 7.00    | 35.75   |
| Austrian Spruce            | 4 to 9      | 7.00    | 35.75   |
| Colorado Blue Spruce       | 3 to 7      | 7.50    | 37.50   |
| Concolor Fir (Colorado)    | 3 to 7      | 12.75   |         |

| EVERGREEN LINERS  |               |        |  |
|---|---------------|--------|--|
|   | Each          |        |  |
| Cedrus Deodara, 2-year liners                             | 12 to 15 ins. | \$0.25 |  |
| Cedrus Deodara, 2-year liners                             | 15 to 18 ins. | .35    |  |
| Prompt shipment of these mail order grades, branched.     |               |        |  |
| Aucuba japonica, variegated; 2-year, 4-in. pots           |               | \$0.40 |  |
| Aucuba japonica, green (female), 2-year, 4-in. pots       |               | .40    |  |
| Abelia grandiflora, 12 to 18 ins., 2-year                 |               | .10    |  |
| Abelia grandiflora, 10 to 12 ins., 2-year                 |               | .05    |  |
| Mahonia Bealei, seedlings, 1-year grade, \$35.00 per 1000 |               |        |  |

| JORDAN NURSERIES                          |         |         |  |
|---|---------|---------|--|
|   | Per 100 | 1000    |  |
| HEAVY, POTTED EVERGREEN LINERS            |         |         |  |
| Excellent stock under lath.               |         |         |  |
| Arbutus, Globe, 2 1/4-in. pots, 3-yr.     |         | \$16.00 |  |
| Buxus sempervirens, 2 1/4-in. pots, 3-yr. |         | 22.50   |  |
| Buxus koriana, 2-in. pots, 3-yr.          |         | 22.50   |  |
| Juniperus Pfitzeriana, 2-in. pots, 2-yr.  |         | 15.00   |  |
| Taxus cuspidata, 2-in. pots, 2-yr.        |         | 20.00   |  |
| Taxus cuspidata, 2 1/4-in. pots, 2-yr.    |         | 22.50   |  |
| Taxus Hicksii, 2 1/4-in. pots, 2-yr.      |         | 22.50   |  |
| 3-yr., T. 10 to 12 ins.                   |         | 37.50   |  |
| Spring delivery. Cash; packing free.      |         |         |  |
| FLORAL GARDENS, EATON, O.                 |         |         |  |

| PINE, SPRUCE, FIR SEEDLINGS              |         |        |       |
|--|---------|--------|-------|
|  | Per 100 | 1000   |       |
| Red Pine, 3-yr., 6 to 12 ins.            |         | \$5.00 |       |
| Austrian Pine, 3-yr., 8 to 14 ins.       |         | 30.00  |       |
| Mugho Pine, 4-yr., 6 to 12 ins.          |         | 30.00  |       |
| Scotch Pine, 3-yr., 8 to 14 ins.         |         | 5.00   | 35.00 |
| Norway Spruce, 3-yr., 4 to 8 ins.        |         | 4.00   | 30.00 |
| Colorado Blue Spruce, 3-yr., 4 to 8 ins. |         | 8.00   | 40.00 |
| Douglas Fir, 4-yr., 8 to 6 ins.          |         | 6.00   | 32.50 |
| Write for complete 1955 price list.      |         |        |       |

| PAINT CREEK NURSERIES            |         |         |         |
|----------------------------------|---------|---------|---------|
|                                  | Per 100 | 1000    |         |
| QUALITY STOCK                    |         |         |         |
| Juniperus virginiana, graft size |         | \$ 8.00 | \$15.00 |
| 12 to 18 ins., heavy liners      |         | 10.00   | 90.00   |
| Chinese Arborvitae, graft size   |         | 5.00    | 45.00   |
| 12 to 18-in. liners              |         | 10.00   | 90.00   |
| 2 to 4 ins.                      |         | 2.50    | 20.00   |

| BECK NURSERY  |             |  |  |
|---|-------------|--|--|
|   | Enid, Okla. |  |  |
| 2016 N. Independence  |             |  |  |
| JAPANESE BLACK PINE   |             |  |  |
| Pinus Thunbergii compacta Hrenl.  |             |  |  |
| Our own dense strain of this most popular evergreen for seashore and other adverse conditions that lack the ranginess of the ordinary strain. Heavy, branched, 4 to 5-year liners, bare-root, April delivery; rate per 1000: 10 to 12 ins., 35c; 12 to 15 ins., 50c. Also larger landscape sizes. |             |  |  |

| JOS. A. HREN NURSERIES   |                            |      |        |
|--|----------------------------|------|--------|
|  | East Hampton, L. I., N. Y. |      |        |
| Rt. 27   |                            |      |        |
| HEAVY FIELD-GROWN LINERS                                       |                            |      |        |
| Juniperus Pfitzeriana, 9 to 12 ins., XX                        |                            | Each | \$0.50 |
| Juniperus Pfitzeriana, 12 to 15 ins., XX                       |                            |      | .60    |
| These are heavy-rooted and far above average. Spring shipment. |                            |      |        |

| DAMASCUS NURSERIES   |              |        |         |
|--|--------------|--------|---------|
|  | Damascus, O. |        |         |
| Box 216  |              |        |         |
| NANDINAS, BED-GROWN SEEDLINGS  |              |        |         |
| 3 to 4 ins.  |              | \$5.00 | \$40.00 |
| 4 to 6 ins.  |              | 6.00   | 50.00   |
| 6 to 8 ins.  |              | 8.00   | 70.00   |
| We offer you well-rooted, well graded, well packed stock. No charge for packing when cash accompanies order. |              |        |         |

| GREEN TREE NURSERY              |                  |          |  |
|---------------------------------|------------------|----------|--|
|                                 | Pine Bluff, Ark. |          |  |
| 500 W. 2nd Ave.                 |                  |          |  |
| AMERICAN BOXWOOD                |                  |          |  |
| Buxus sempervirens, field-grown |                  | Per 100  |  |
| 10 to 12 ins.                   |                  | \$ 50.00 |  |
| 12 to 15 ins.                   |                  | 75.00    |  |
| 15 to 18 ins.                   |                  | 100.00   |  |

| PINKSTON NURSERIES |              |  |  |
|--------------------|--------------|--|--|
|                    | Parrott, Ga. |  |  |
| Box 216            |              |  |  |

| TAXUS, 2-YEAR                   |         |         |         |
|---------------------------------|---------|---------|---------|
|                                 | Per 100 | 1000    |         |
| CUSPIDATA                       |         | \$35.00 | \$30.00 |
| CAPITATA                        |         | 35.00   | 30.00   |
| Moony                           |         | 35.00   | 30.00   |
| Hickel                          |         | 35.00   | 30.00   |
| Densiformis                     |         | 35.00   | 30.00   |
| These cuttings are extra heavy. |         |         |         |

| LARRY'S NURSERIES, INC. |                    |  |  |
|-------------------------|--------------------|--|--|
|                         | Cranston 10, R. I. |  |  |
| 960 Reservoir Ave.      |                    |  |  |

| WELL-ROOTED CUTTINGS          |          |         |  |
|-------------------------------|----------|---------|--|
|                               | Per 1000 |         |  |
| Biota aurea nana, 3 to 4 ins. |          | \$70.00 |  |
| Ilex rotundifolia, 4 ins.     |          | 50.00   |  |

| JOHNSON'S NURSERY  |               |        |  |
|--|---------------|--------|--|
|  | Baxter, Tenn. |        |  |
| JUNIOR SPECIMEN TAXUS  |               |        |  |
| Field-grown, T.T. Sheared.   |               |        |  |
| TAXUS HICKSII, 24 to 28 ins.   |               | \$2.25 |  |
| TAXUS HATFIELDI, 18 to 24 ins.   |               | 2.25   |  |
| TAXUS HATFIELDI, 15 to 18 ins.   |               | 1.85   |  |
| TAXUS HICKSII, 18 to 24 ins.   |               | 1.85   |  |
| TAXUS HICKSII, 15 to 18 ins.   |               | 1.65   |  |
| TERMS: CASH with order. Shipped bare-root, free packing. Limited quantity. |               |        |  |

| TARBELL NURSERIES, Lenoir, N. C.  |  |  |  |
|---|--|--|--|
|   |  |  |  |
| DWARF BOXWOOD   |  |  |  |
| Border your flower beds and walks with our Old English Buxus suffruticosa, several years old. Field-grown, compact, good color. |  |  |  |
| 4 to 6 ins., \$25.00 per 100; 6 to 8 ins., \$50.00 per 100.   |  |  |  |

| PINKSTON NURSERIES   |              |  |  |
|--|--------------|--|--|
|  | Parrott, Ga. |  |  |
| JAPANESE BLACK PINE  |              |  |  |
| 4 to 7 ft., about 600, also Hybrid Rhododendron, 18 to 30 ins. Also Hybrid Rhododendron grafted liners for spring, 1955. |              |  |  |

| PARMENTIER'S ROSES                      |                                  |          |        |
|---|----------------------------------|----------|--------|
|   | Grady St., Bayport, L. I., N. Y. |          |        |
| Phone: 8-0811 or 8-2331                 |                                  |          |        |
| EVERGREEN LINERS                        |                                  |          |        |
| Bar Harbor Juniper, 8 to 10, T. \$15.00 |                                  | \$125.00 |        |
| Andorra Juniper, 6 to 10, T.            |                                  | 15.00    | 125.00 |
| Ilex rotundifolia, 9 to 12, T.          |                                  | 25.00    | 235.00 |
| Heavy rooted, field transplants.        |                                  |          |        |
| Cash with order. Free packing.          |                                  |          |        |

| WHERRY'S NURSERIES, St. Marys, W. Va.  |  |  |  |
|--|--|--|--|
|  |  |  |  |
| JUNIPER CUTTINGS   |  |  |  |
| Unrooted cuttings of Pfitzer Juniper, 6 to 8 ins. long, not trimmed, \$10.00 per 1000. |  |  |  |
| Cash. Express or motor freight.  |  |  |  |

| KRONES FLOWER SHOP             |                  |  |  |
|--------------------------------|------------------|--|--|
|                                | Fort Smith, Ark. |  |  |
| 4221 Grand Ave.                |                  |  |  |
| EVERGREENS                     |                  |  |  |
| Potted and field-grown liners. |                  |  |  |
| Juniper, Taxus, Arborvitae.    |                  |  |  |
| Write for trade list.          |                  |  |  |

| VOGE NURSERY, NEW LEBANON, O.  |  |                  |  |
|--|--|------------------|--|
|  |  |                  |  |
| NANDINAS, 4 to 6 ins. high and better, \$30.00 per 1000. Cash. Express only. |  |                  |  |
| KRONES FLOWER SHOP   |  |                  |  |
| 4221 Grand Ave.  |  | Fort Smith, Ark. |  |

| FRUIT AND NUT TREES                       |  |  |  |
|---|--|--|--|
|   |  |  |  |
| DWARF APPLE STOCKS                        |  |  |  |
| We are making 20,000 piece-root grafts of |  |  |  |
| Malling I, II and VII                     |  |  |  |
| for early spring, 1955, delivery.         |  |  |  |
| These can be budded in August, 1955.      |  |  |  |

| LORNE J. DOUD                      |         |              |  |
|------------------------------------|---------|--------------|--|
|                                    | Route 1 |              |  |
| Wabash, Ind.                       |         |              |  |
| FLOWERING CRAB APPLE GRAFTS        |         |              |  |
| ATROSANGUINEA                      |         | HOPA         |  |
| ALMEY                              |         | NORMANDI     |  |
| DOLGO                              |         | RED SILVER   |  |
| ELEYI                              |         | SCHIEDECKERI |  |
| \$10.00 per 100, \$35.00 per 1000. |         |              |  |

| APPLE GRAFTS                      |  |                |  |
|-----------------------------------|--|----------------|--|
|                                   |  |                |  |
| GRIMES GOLDEN                     |  | STAYMANS       |  |
| JONATHAN                          |  | WINESAP        |  |
| MCINTOSH                          |  | SCHIEDECKERI   |  |
| ROME BEAUTY                       |  | YEL. DELICIOUS |  |
| RED DELICIOUS                     |  | YEL. TRANS.    |  |
| RED JUNE                          |  | PARENT         |  |
| \$5.50 per 100, \$45.00 per 1000. |  |                |  |
| Prepaid for cash with order.      |  |                |  |

| PRITCHARD'S NURSERIES, Ottawa, Kan.            |  |  |  |
|--|--|--|--|
|  |  |  |  |
| CHINESE CHESTNUT                               |  |  |  |
| USDA No. P. I., 58602.                         |  |  |  |
| Has proven, so far, as best                    |  |  |  |
| for general planting.                          |  |  |  |
| 2 to 3 ft., 2-yr., per 5, \$7.50; 10, \$14.00. |  |  |  |
| 3 to 4 ft., 2-yr., per 5, \$8.75; 10, \$16.00. |  |  |  |

| WHITFORD NURSERY, FARINA, ILL.  |  |  |  |
|---|--|--|--|
|   |  |  |  |
| CHINESE CHESTNUT  |  |  |  |
| Row run, culls out, 3-yr.-old stock, 2 ft. and up. Mostly 2 to 3 ft., some 4 ft. All branched and well-rooted. Tied in 20's, in lots of 100, \$32.50 per lot. Very profitable lining-out stock or for mail-order sales. |  |  |  |
| F.O.B. Cowen, packing at cost. All other popular sizes in seedlings, transplants, and 1-yr.-old liners in quantities. Write for prices.   |  |  |  |

| GOLD CHESTNUT NURSERY     |               |                  |  |
|---------------------------|---------------|------------------|--|
|                           | Cowen, W. Va. |                  |  |
| CHINESE CHESTNUTS         |               |                  |  |
| 2 to 3 ft., transplanted  |               | Per 10 Per 100   |  |
| 3 to 4 ft., transplanted  |               | \$ 7.50 \$ 65.00 |  |
| 4 to 5 ft., transplanted  |               | 10.00 90.00      |  |
| 5 to 7 ft., transplanted  |               | 15.00 140.00     |  |
| 7 to 8 ft., transplanted  |               | 20.00 185.00     |  |
| 8 to 10 ft., transplanted |               | 25.00 225.00     |  |

| WAYNESBORO NURSERIES |                 |  |  |
|----------------------|-----------------|--|--|
|                      | Waynesboro, Va. |  |  |

| 1-YEAR APPLE WHIPS.   |             |        |         |
|---|-------------|--------|---------|
|   | Extra nice. | Per 10 | Per 100 |
| 4 to 6 ft.  |             | \$5.00 | \$40.00 |
| 3 to 4 ft.  |             | 4.00   | 30.00   |
| 2 to 3 ft.  |             | 3.00   | 20.00   |
| Anoka, Lodi, Red June, red Jonathan, Yellow Delicious, dark red Delicious, dark red Stayman, red Rome Beauty. |             |        |         |
| 5 per cent cash discount.   |             |        |         |

| CUMBERLAND VALLEY NURSERIES, INC.   |                    |  |  |
|---|--------------------|--|--|
|   | McMinnville, Tenn. |  |  |
| Telephone No. 2616.   |                    |  |  |
| CHINESE CHESTNUT TREES  |                    |  |  |
| Row run, culls out, 3-yr.-old stock, 2 ft. and up. Mostly 2 to 3 ft., some 4 ft. All branched and well-rooted. Tied in 20's, in lots of 100, \$32.50 per lot. Very profitable lining-out stock or for mail-order sales. |                    |  |  |
| F.O.B. Cowen, packing at cost. All other popular sizes in seedlings, transplants, and 1-yr.-old liners in quantities. Write for prices.   |                    |  |  |

| GOLD CHESTNUT NURSERY     |               |                  |  |
|---------------------------|---------------|------------------|--|
|                           | Cowen, W. Va. |                  |  |
| CHINESE CHESTNUTS         |               |                  |  |
| 2 to 3 ft., transplanted  |               | Per 10 Per 100   |  |
| 3 to 4 ft., transplanted  |               | \$ 7.50 \$ 65.00 |  |
| 4 to 5 ft., transplanted  |               | 10.00 90.00      |  |
| 5 to 7 ft., transplanted  |               | 15.00 140.00     |  |
| 7 to 8 ft., transplanted  |               | 20.00 185.00     |  |
| 8 to 10 ft., transplanted |               | 25.00 225.00     |  |

| WAYNESBORO NURSERIES  |                 |  |  |
|---|-----------------|--|--|
|   | Waynesboro, Va. |  |  |
| GERANIUMS   |                 |  |  |
| Extra nice, well-rooted, 2 1/4-in. pot-grown plants. You can immediately see the high quality of these Geraniums. |                 |  |  |

| DOUBLE RED  |  |                    |  |
|---|--|--------------------|--|
|   |  |                    |  |
| Better Times  |  | Mme. Landry        |  |
| Avalon Red  |  | Picardy            |  |
| Red Barney  |  | Salmon Supreme     |  |
| Olympic Red   |  | Imp. Mrs. Lawrence |  |
| Red Fiat  |  |                    |  |
| Improved Ricard   |  |                    |  |
| 2 1/4-IN. PLANTS. \$15.00 per 100, \$140.00 per 1000. (250 at 1000 rate.) |  |                    |  |

| FANCY-LEAVED GERANIUMS             |  |                   |  |
|------------------------------------|--|-------------------|--|
|                                    |  |                   |  |
| Happy Thought                      |  | Skies of Italy    |  |
| Mme. Languth                       |  | Marshall MacMahon |  |
| 2 1/4-in., \$22.50 per 100.        |  |                   |  |
| SCENTED GERANIUMS                  |  |                   |  |
| Assorted varieties of many scents. |  |                   |  |
| 2 1/4-in., \$15.00 per 100.        |  |                   |  |

| WILSON BROS. |                 |  |  |
|--------------|-----------------|--|--|
|              | Roachdale, Ind. |  |  |
| Box 47       |                 |  |  |
| Phone 225R4  |                 |  |  |

| GROUND COVERS  |  |  |  |
|--|--|--|--|
|  |  |  |  |
| VINCA MINOR, MYRTLE PERIWINKLE   |  |  |  |
| Fresh dug, individually made up, 15 to 20-cane clumps, \$50.00 per 1000, 30-cane clumps, \$90.00 per 1000. |  |  |  |
| Pachysandra, strong, 1-yr., rooted, \$45.00 per 1000.  |  |  |  |
| Hall's Honeysuckle, branched, \$45.00 per 1000.  |  |  |  |

| H. C. WAUGH   |            |  |  |
|---|------------|--|--|
|   | Belpre, O. |  |  |
| Boulevard Dr.   |            |  |  |
| PACHYSANDRA TERMINALIS — strong-rooted cuttings, \$3.75 per 100; \$33.75 per 1000; \$32.50 for any order of 5000 or more. |            |  |  |
| Prompt shipment. Beetle zone only.  |            |  |  |

| DUNWOODIE NURSERIES                           |                |  |  |
|---|----------------|--|--|
|   | Yonkers, N. Y. |  |  |
| 6 Smart Ave.                                  |                |  |  |
| Phone: Yonkers 5-1473                         |                |  |  |
| PACHYSANDRA TERMINALIS                        |                |  |  |
| Strong, 1-yr., field-grown, \$65.00 per 1000. |                |  |  |
| HILLCREST GREENHOUSES, Franklin, Pa.          |                |  |  |

| HARDY PLANTS      |  |  |  |
|-------------------|--|--|--|
|                   |  |  |  |
| HELLEBORUS NIGER  |  |  |  |
| (Christmas Rose)  |  |  |  |
| Our own grown.    |  |  |  |
| 3-yr. transplants |  |  |  |
| \$50.00 per 100   |  |  |  |
| \$450.00 per 1000 |  |  |  |

Panicles, perennials and rock plants in wide variety. Send for catalog.  
**PITZONKA'S PANTRY FARM & NURSERY**  
 Bristol, Pa.

**WELLER'S BETTER PERENNIALS**  
**WELLER NURSERY CO., Holland, Mich.**  
 Write for trade list.

### HARDWOOD CUTTINGS

**HARDWOOD CUTTINGS**  
 We specialize in furnishing hardwood cuttings to the trade. Because it takes time to process them, we especially urge early reservation of needs.  
 We cut a little over 7 ins. Tie in 100. Please order in multiples of 100. Where case accompanies order, packing is free. We guarantee delivery in good condition.

|  | Per 1000 |
|--|----------|
| <i>Aronia melanocarpa</i> .....              | \$ 5.00  |
| <i>Cornus paniculata</i> .....               | 5.00     |
| <i>Sibirica</i> .....                        | 5.00     |
| <i>Amomum</i> .....                          | 5.00     |
| <i>Forsythia intermedia</i> .....            | 5.00     |
| <i>Spectabilis</i> .....                     | 4.00     |
| <i>Primulina</i> .....                       | 4.00     |
| <i>Ovata</i> .....                           | 4.00     |
| <i>Hydrangea P.G.</i> .....                  | 5.00     |
| <i>Hydrangea A.G.</i> .....                  | 5.00     |
| <i>Privet, Annus (North)</i> .....           | 4.00     |
| <i>Regel (true)</i> .....                    | 8.00     |
| <i>Ibota</i> .....                           | 4.00     |
| <i>Honeysuckle, Morrowi</i> .....            | 4.00     |
| <i>Bella albidia</i> .....                   | 4.00     |
| <i>Bella rosea</i> .....                     | 4.00     |
| <i>Tatarica rosea</i> .....                  | 5.00     |
| <i>Korolkowi</i> .....                       | 5.00     |
| <i>Zabeli</i> .....                          | 5.00     |
| <i>Diervilla trifida</i> .....               | 5.00     |
| <i>Philadelphus grandiflorus</i> .....       | 4.00     |
| <i>Mt. Blanc</i> .....                       | 4.00     |
| <i>Bouquet Blanc</i> .....                   | 4.00     |
| <i>Lemoine</i> .....                         | 5.00     |
| <i>Amalthee</i> .....                        | 5.00     |
| <i>Coronarius</i> .....                      | 5.00     |
| <i>Virginialis</i> .....                     | 5.00     |
| <i>Physocarpus, opulifolius aureus</i> ..... | 4.00     |
| <i>Opulifolius nanus</i> .....               | 5.00     |
| <i>Sorbaria sorbifolia</i> .....             | 4.00     |
| <i>Spiraea Billardi rosea</i> .....          | 4.00     |
| <i>Freibell</i> .....                        | 4.00     |
| <i>Thunbergi</i> .....                       | 4.00     |
| <i>Vanhouttei</i> .....                      | 4.00     |
| <i>Trichocarpa</i> .....                     | 4.00     |
| <i>Snowberry, white</i> .....                | 4.00     |
| <i>Viburnum dentatum</i> .....               | 5.00     |
| <i>Poplar, Lombardy</i> .....                | 4.00     |
| <i>Norway</i> .....                          | 4.00     |
| <i>Willow, Niohe weeping</i> .....           | 4.00     |
| <i>Pussy</i> .....                           | 4.00     |
| <i>Dwarf, Arctic</i> .....                   | 15.00    |
| <i>Arboretum pyramidalis</i> .....           | 15.00    |
| <i>Warreana (iberian)</i> .....              | 15.00    |
| <i>Globe</i> .....                           | 15.00    |
| <i>Retinospora plumosa</i> .....             | 15.00    |
| <i>Juniper, Pfitzer</i> .....                | 15.00    |
| <i>Andorra</i> .....                         | 15.00    |
| <i>Savin</i> .....                           | 15.00    |
| <i>Taxus, cuspidata</i> .....                | 15.00    |
| <i>Canadensis</i> .....                      | 15.00    |

### SCOTCH GROVE NURSERY

Scotch Grove, Ia.

### HOLLY

**HOLLY**  
 45 English and Hybrid varieties, 25 American, 10 Asiatic. Cutting-grown plants, well-rooted and hardened for spring delivery. Full replacement guarantee to bona fide nurserymen and florists. Write for stock list and new low prices.

**WILMAT HOLLY CO.**  
 304  
 Narberth, Pa.

### HOLLY

Cutting-grown female plants out of 3-in. pots.  
*English Holly, green* ..... Per 100 \$40.00 || *English Holly, variegated* ..... | 45.00 |
| 50 minimum quantity. Cash with order. |  |
| **DESCANSO DISTRIBUTORS, INC.** |  |
| Wholesale Growers |  |
| Chino, Calif. |  |

### OREGON ENGLISH HOLLIES

Cut holly. General nursery stock.  
 May we quote you?  
**ALFRED TEUFEL**  
 11414 N. W. Cornell Rd. Portland, Ore.

Watch Your Results From  
 American Nurseryman Classified Ads.

### IVIES

#### HARDY ENGLISH IVY (HEDERA HELIX.)

Strong 2 1/2-in. pots, pinched back, \$13.50 per 100, \$130.00 per 1000.  
 Spring shipment; beetle zone only.  
 Packing free for cash.

**LEHIGH VALLEY NURSERIES, INC.**  
 1745 Linden St. Bethlehem, Pa.

#### BALTIC IVY.

Strong, clean, well-rooted stock.  
 Per 100 Per 1000  
 Rooted cuttings ..... \$ 6.00 \$56.00 || 2-in. pots ..... | 10.00 95.00 |
| Can ship now or later. 25 per cent down to reserve. |  |

#### STRATFORD GARDENS

Russell Breece Delaware, O.

### HARDY ENGLISH IVIES

**HEDERA HELIX, BALTICA and GRACILIS.**  
 Strong 2 1/2-in. pots, \$12.50 per 100.  
 Spring shipment. Free packing for cash.

**BABCOCK GARDENS**  
 Route 3 Jamestown, N. Y.

### LINING-OUT STOCK

#### EVERGREENS

|   | Each    |
|---|---------|
| <i>Pfitzer Juniper, T.T. field, sheared,</i>    |         |
| 8 to 11-in. spread .....                        | \$0.40  |
| 11 to 14-in. spread .....                       | .55     |
| 14 to 16-in. spread .....                       | .65     |
| 6 to 8-in. bands .....                          | .14 1/2 |
| 8 to 10-in. bands .....                         | .20     |
| <i>Andorra Jun., bands, 6 to 10 ins.</i>        | .12 1/2 |
| extra heavy .....                               | .16 1/2 |
| <i>Blue Hetz Jun., bands, 6 to 8 ins.</i>       | .14 1/2 |
| 8 to 10 ins. .....                              | .18     |
| <i>Dwarf Pfitzer Jun. (nana), bands.</i>        | .20     |
| <i>Compact Pfitzer Jun., bands, 6 to 8 ins.</i> | .18     |
| <i>Greek Jun., bands, 6 to 8 ins.</i>           | .14 1/2 |
| <i>Manhattan Blue Jun., upright, bands,</i>     |         |
| 6 to 8 ins. .....                               | .25     |
| <i>Densa Glauca Jun., upright, bands,</i>       |         |
| 6 to 8 ins. .....                               | .25     |
| <i>Savin Jun., bands, 6 to 10 ins.</i>          | .12 1/2 |
| extra heavy .....                               | .16 1/2 |
| <i>Von Ehron Jun., bands, 8 to 10 ins.</i>      | .12 1/2 |
| extra heavy .....                               | .16 1/2 |
| bare-root (topped) .....                        | .06     |
| <i>Golden Pfitzer, bands, 6 to 10 ins.</i>      | .20     |
| <i>Spreading Jap. Yew, bands, 6 to 8 ins.</i>   | .20     |
| <i>Upright Jap. Yew, bands, 6 to 8 ins.</i>     | .20     |
| <i>Dwarf Jap. Yew (nana), bands,</i>            |         |
| 4 to 6 ins. .....                               | .16     |

*Euonymus coloratus, 6 to 10 ins., bare-root* ..... .03 1/2 || *Euonymus patens, small, large or medium leaved, 6 to 10 ins., bare-root* ..... | .04 |
| *small leaved, bands, 6 to 10 ins.* | .10 |
| *Pyracantha Lalandi, 5 to 6 ins.* | .05 |

#### DECIDUOUS, Bare-root.

|  |         |
|--|---------|
| <i>Blue-leaved Arctic Willow, 6 to 10 ins.</i> | .06     |
| <i>Blue Spiraea (Caryopteris),</i>             |         |
| 4 to 6 ins. .....                              | .03 1/2 |
| <i>Buddieia Snowbank, long spike,</i>          |         |
| 6 to 8 ins. .....                              | .06     |
| <i>Buddieia, heat red; 4 to 6 ins.</i>         | .06     |
| <i>Chinese Beauty-Berry (Callicarpa),</i>      |         |
| 6 to 10 ins. .....                             | .03 1/2 |
| <i>Desmodium penduliflorum, 5 to 6 ins.</i>    | .05     |
| <i>Deutzia gracilis, bands, 6 to 8 ins.</i>    | .12 1/2 |
| <i>Forsythia Lynwood Gold, 4 to 8 ins.</i>     | .08     |
| <i>Forsythia Spring Glory, 5 to 8 ins.</i>     | .04     |
| <i>Forsythia Spring Glory, 12 to 18 ins.</i>   | .08     |
| 2-yr. .....                                    | .08     |
| <i>Golden vicari privet, variegated,</i>       |         |
| bare-root, 6 to 10 ins. .....                  | .04     |
| <i>Privet, Chinese, Wayside Gardens</i>        |         |
| <i>Shiny, 6 to 10 ins.</i>                     | .03 1/2 |
| <i>Privet, Regela, 6 to 10 ins.</i>            | .03 1/2 |
| <i>Prunus cistena, dwarf, purple-leaved</i>    |         |
| <i>plum; bands, 8 to 10 ins.</i>               | .10     |
| <i>Prunus, Newport, same color as above,</i>   |         |
| larger tree, bands, 8 to 10 ins. .....         | .10     |
| <i>Prunus, Thundercloud, new scarlet;</i>      |         |
| <i>bands, 8 to 10 ins.</i>                     | .12 1/2 |
| <i>Weigela, dwarf, variegated; 3 to 5 ins.</i> | .04     |
| <i>Weigela Eva Rathke, red; 4 to 6 ins.</i>    | .06     |
| <i>Weigela rosea, 4 to 6 ins.</i>              | .04     |

#### PERENNIALS, Bare-root.

|  |     |
|--|-----|
| <i>Carnation Crimson King, 4 to 6 ins.</i>   | .06 |
| <i>Lythrum Mordena Pink, 6 to 8 ins.</i>   | .04 |
| <i>Lythrum Mordena Pink, light field,</i>  |     |
| September transplant .....   | .10 |
| <i>Verbena, hardy, lavender-pink</i>   | .06 |
| All prices 300 or more total order, 50¢ of a variety. Less than 300, add 2¢ per plant. |     |
| Book your order for spring.  |     |
| <b>MCMINNIS GREENHOUSES</b>  |     |
| St. Joseph, Mo.  |     |

#### LINING-OUT STOCK

| Nice, healthy, well-rooted stock.             | Price per 100.  |
|---|-----------------|
|   | 6 to 8 to       |
|   | 8 ins. 12 ins.  |
| <i>Buxus Harlandi</i> .....                   | \$12.50 \$17.50 |
| <i>Buxus Japonica</i> .....                   | 12.50 17.50     |
| <i>Buxus sempervirens</i> .....               | 12.50 17.50     |
| <i>Cedrus Deodara</i> .....                   | 12.50 15.00     |
| <i>Elaeagnus Fruitlandi</i> .....             | 12.50 15.00     |
| <i>Eriobotrya Japonica (Loquat)</i> .....     | 12.50           |
| <i>Feijoa (Pineapple Guava)</i> .....         | 12.50 15.00     |
| <i>Gardenia Fortunei</i> .....                | 7.50 10.00      |
| <i>Gardenia Myrtens</i> .....                 | 7.50 10.00      |
| <i>Gardenia radicans</i> .....                | 7.50 10.00      |
| <i>Hedera cornuta Burfordi</i> .....          | 15.00 17.50     |
| <i>Hedera crenata convexa (bullata)</i> ..... | 15.00 20.00     |
| <i>Hedera crenata rotundifolia</i> .....      | 15.00 17.50     |
| <i>Hedera vomitoria (Yaupon)</i> .....        | 15.00 17.50     |
| <i>Magnolia grandiflora</i> .....             | 10.00 12.50     |
| <i>Omanthus fragrans</i> .....                | 12.50 15.00     |
| <i>Retinospora ericoides</i> .....            | 10.00 12.50     |

#### BLACK WELB NURSERIES

Semmes, Ala.

Wholesale Only

#### LINING-OUT STOCK

| Liners grown one year in outside beds.     | Per 100 |
|--|---------|
| <i>Hedera rotundifolia,</i>                |         |
| 4 to 6 ins. .....                          | \$ 8.00 |
| 6 to 8 ins. .....                          | 10.00   |
| 8 to 12 ins. .....                         | 12.50   |
| 12 to 15 ins. .....                        | 17.50   |
| <i>Hedera crenata convexa, 4 to 6 ins.</i> | 10.00   |
| <i>Hedera crenata convexa, 6 to 8 ins.</i> | 12.50   |
| <i>Gardenia Mystery, 8 to 12 ins.</i>      | 10.00   |
| <i>Gardenia radicans, 6 to 8 ins.</i>      | 7.50    |
| <i>Gardenia radicans, 8 to 12 ins.</i>     | 10.00   |

#### WELCH BROS. NURSERY

Wilmer, Ala.

### BEDDED STOCK

1 yr. in the open.

|  | Per 100 | Per 1000 |
|--|---------|----------|
| <i>Euonymus alatus compactus</i> ..... | \$20.00 | \$180.00 |
| <i>Hedera rotundifolia</i> .....       | 20.00   | 180.00   |
| <i>Sarcococca Hookeriana</i> .....     | 25.00   | 250.00   |
| <i>Taxus Andersoni</i> .....           | 20.00   | 175.00   |
| <i>Taxus brevifolia</i> .....          | 20.00   | 200.00   |
| <i>Taxus Browni</i> .....              | 17.50   | 160.00   |
| <i>Taxus canadensis stricta</i> .....  | 17.50   | 175.00   |
| <i>Taxus capitata, cutting</i>         |         |          |
| grade .....                            | 25.00   | 250.00   |
| <i>Taxus cuspidata</i> .....           | 17.50   | 150.00   |
| <i>Taxus Hatfieldi</i> .....           | 17.50   | 150.00   |
| <i>Taxus Hickel</i> .....              | 17.50   | 150.00   |
| <i>Taxus intermedia</i> .....          | 17.50   | 150.00   |

### SEEDLINGS AND TRANSPLANTS

|                                       |       |        |
|---------------------------------------|-------|--------|
| <i>Abies Douglasi, 2-yr. S.</i>       | 4.00  | 35.00  |
| <i>Abies Nordmanniana, 1-yr. S.</i>   | 10.00 | 90.00  |
| <i>Acer palmatum, 1-yr. S.</i>        | 6.00  | 50.00  |
| <i>Acer palmatum, 2-yr. S.</i>        | 7.50  | 65.00  |
| <i>Acer palmatum atropurpureum,</i>   |       |        |
| 1-yr. S. ....                         | 22.50 | 200.00 |
| <i>Acer palmatum atropurpureum,</i>   |       |        |
| 2-yr. S. ....                         | 32.50 | 300.00 |
| <i>Ampelopsis Veitchi, 1-yr. S.</i>   | 6.00  | 40.00  |
| <i>Ampelopsis Veitchi, 2-yr. T.</i>   | 15.00 | 125.00 |
| <i>Chamaecyparis obtusa,</i>          |       |        |
| 1-yr. S. ....                         | 3.00  | 25.00  |
| <i>Cornus florida, 1-yr. S.</i>       | 6.00  | 50.00  |
| <i>Cornus florida, 2-yr. S.</i>       | 7.50  | 65.00  |
| <i>Cornus xanthocarpa, 2-yr. S.</i>   | 20.00 | 180.00 |
| <i>Cryptomeria japonica, 1-yr. S.</i> | 4.00  | 35.00  |
| <i>Cupressus Lawsoniana, 2-yr. S.</i> | 8.00  | 80.00  |
| <i>Euonymus alatus, 1-yr. S.</i>      | 3.50  | 30.00  |
| <i>Euonymus alatus compactus,</i>     |       |        |
| 1-yr. S. ....                         | 5.00  | 40.00  |
| <i>Hedera crenata, 2-yr. S.</i>       | 10.00 | 90.00  |
| <i>Picea canadensis, 2-yr. S.</i>     | 3.50  | 30.00  |
| <i>Picea Engelmanni, 3-yr. S.</i>     | 5.00  | 40.00  |
| <i>Picea excelsa, 2-yr. S.</i>        | 2.50  | 20.00  |
| <i>Picea pungens, 2-yr. S.</i>        | 3.50  | 30.00  |
| <i>Pinus australis, 2-yr. S.</i>      | 7.00  | 60.00  |
| <i>Pinus densiflora, 3-yr. S.</i>     | 7.00  | 60.00  |
| <i>Pinus Mugio, Tyr., 3-yr. S.</i>    | 6.50  | 60.00  |
| <i>Pinus resinosa, 3-yr. S.</i>       | 7.00  | 60.00  |
| <i>Pinus Strobus, 3-yr. S.</i>        | 4.50  | 40.00  |
| <i>Pinus strobus, 3-yr. S.</i>        | 6.00  | 50.00  |
| <i>Pinus Thunbergi, 3-yr. S.</i>      | 6.00  | 50.00  |
| <i>Syringa vulgaris, 2-yr. S.</i>     | 4.00  | 30.00  |
| <i>Taxus capitata, 1-yr. S.</i>       | 5.00  | 40.00  |
| <i>Taxus capitata, T., 1-yr. S.</i>   | 6.00  | 50.00  |
| <i>Taxus capitata, T., 2-yr. S.</i>   | 16.00 | 150.00 |
| <i>Tsuga canadensis, 2-yr. S.</i>     | 8.00  | 80.00  |
| <i>Viburnum theiflorum, 1-yr. S.</i>  | 10.00 | 90.00  |

### HEAVY, FIELD-GROWN STOCK

| Bare-root and ready for Cloverset pots and cash-and-carry trade. | Per 100  |
|--|----------|
| <i>Acer palmatum atropurpureum,</i>                              |          |
| 15 to 18 ins. ....   | \$400.00 |
| <i>Acer platanoides, 3 to 4 ft.</i>                              | 40.00    |
| <i>Cornus florida, 2 to 3 ft. bushy</i>                          | 90.00    |
| <i>Cornus florida rubra, 18 to 24 ins.</i>                       | 125.00   |
| <i>Cornus Kousa, 3 to 4 ft.</i>                                  | 100.00   |
| <i>Juniperus Pfitzeriana, 8 to 12 ins.</i>                       | 65.00    |
| <i>Juniperus Pfitzeriana, 12 to 15 ins.</i>                      | 75.00    |
| <i>Tsuga canadensis, 12 to 18 ins.</i>                           | 100.00   |
| <i>Tsuga canadensis, 18 to 24 ins.</i>                           | 150.00   |
| <i>Viburnum theiflorum, 18 to 24 ins.</i>                        | 60.00    |

The above stock has been several times transplanted. Special price on large quantities. Full list on demand.

### VERKADE'S NURSERIES, Wayne, N. J.

#### FIELD-GROWN EVERGREEN LINERS

|  | Per 100    | Per 1000 |
|--|------------|----------|
| <i>Andorra Juniper, 1-year,</i>                    |            |          |
| 6 to 12 ins. ....                                  | \$0.12 1/2 | \$0.10   |
| <i>Ashford Juniper, 1-year,</i>                    |            |          |
| 6 to 12 ins. ....                                  | .12 1/2    | .10      |
| 2-year, 6 to 18 ins. ....                          | .17 1/2    | .15      |
| <i>Fastigiata Juniper, 1-year,</i>                 |            |          |
| 6 to 12 ins. ....                                  | .12 1/2    | .10      |
| 2-year, 6 to 18 ins. ....                          | .17 1/2    | .15      |
| 3-year, 12 to 30 ins. ....                         | .20        | .17 1/2  |
| <i>Greek Juniper, 1-year,</i>                      |            |          |
| 6 to 12 ins. ....                                  | .12 1/2    | .10      |
| <i>Irish Juniper, 1-year,</i>                      |            |          |
| 6 to 12 ins. ....                                  | .12 1/2    | .10      |
| 2-year, 6 to 18 ins. ....                          | .17 1/2    | .15      |
| <i>Pfitzer Juniper, 1-year,</i>                    |            |          |
| 6 to 12 ins. ....                                  | .17 1/2    | .15      |
| 2-year, 8 to 15 ins. ....                          | .32 1/2    | .30      |
| <i>Pfitzer Juniper compacta,</i>                   |            |          |
| 1-year, 6 to 12 ins. ....                          | .17 1/2    | .15      |
| <i>Sabina (Savin) Juniper, 1-year,</i>             |            |          |
| 6 to 12 ins. ....                                  | .12 1/2    | .10      |
| 2-year, 8 to 15 ins. ....                          | .17 1/2    | .15      |
| <i>Abelia grandiflora, 1-year,</i>                 |            |          |
| 6 to 12 ins. ....                                  | .10        | .07 1/2  |
| 2-year, 8 to 18 ins. ....                          | .12 1/2    | .10      |
| <i>Pink Flowering Dogwood, 12 to 18 ins.</i>       |            |          |
| bare-root, 1-year, 75¢ each.                       |            |          |
| <i>Double-flowering Peaches, 12 to 18 ins.</i>     |            |          |
| 15¢; 18 to 24 ins., 17¢. Colors: Red, white, pink. |            |          |

Red-grown Nandina seedlings, 3 to 4 ins. \$50.00 per 1000; 4 to 6 ins. \$75.00 per 1000.

#### WHITE FLOWERING DOGWOOD

AMOR RIVER NORTH PRIVET

CALIFORNIA PRIVET

Write for catalog.

We offer you well-rooted, well-graded, well-packed stock. 100 or more plants at 100 rate; 300 or more at 1000 rate. No charge for packing when cash accompanies order. All orders will be appreciated and given prompt attention.

#### NAUGHER NURSERY

Chase, Ala.

#### BUDDELIAS

Dubonnet, wine-red. Babcock, white.<



## LINING-OUT STOCK—Continued

| LINING-OUT STOCK.   |        |
|---|--------|
| Abelia Edward Goucher, 15 to 18 ins.                                | \$0.20 |
| 12 to 15 ins.   | .15    |
| Abelia grandiflora, 15 to 18 ins.                                   | .20    |
| 12 to 15 ins.   | .15    |
| Azalea, hardy, Piffey, Bridemaid, formosa and illicina, 6 to 8 ins. | .25    |
| Buxus sempervirens, 6 to 8 ins.                                     | .20    |
| Buxus suffruticosa, 6 to 8 ins.                                     | .20    |
| Candytuft, 2 to 4 ins.  | .10    |
| Cedrus Deodara, 6 to 8 ins.   | .10    |
| Cedrus Deodara glauca, 4 to 6 ins.                                  | .10    |
| Cherry-Laurel, 15 to 18 ins.  | .20    |
| 12 to 15 ins.   | .15    |
| 10 to 12 ins.   | .12½   |
| Confederate Jasmine, 2-year vines.                                  | .17½   |
| Cotoneaster Franchetti, 10 to 12 ins.                               | .20    |
| 8 to 10 ins.  | .15    |
| Elaeagnus Fruitlandi, 8 to 10 ins.                                  | .15    |
| Euonymus microphyllus (box), 6 to 8 ins.                            | .20    |
| Euonymus patens, 15 to 18 ins.                                      | .20    |
| 12 to 15 ins.   | .15    |
| Gardenia radicans, 10 to 12 ins.                                    | .20    |
| Gardenia Myrtifolia, 12 to 15 ins.                                  | .20    |
| 10 to 12 ins.   | .15    |
| Ginkgo biloba, 8 to 10 ins.   | .15    |
| Ilex Burfordi, 12 to 15 ins.  | .20    |
| 10 to 12 ins.   | .15    |
| Ilex Bullata, 6 to 8 ins.   | .20    |
| Ilex crenata rotundifolia, 6 to 8 ins.                              | .15    |
| Ilex microphylla, 6 to 8 ins.                                       | .20    |
| Jasminum floridum, 12 to 15 ins.                                    | .20    |
| 10 to 12 ins.   | .15    |
| 8 to 10 ins.  | .10    |
| Juniper (Irish), 6 to 8 ins.  | .15    |
| Koeleruteria (Golden rain-Tree), 15 to 18 ins.                      | .25    |
| 12 to 15 ins.   | .20    |
| 10 to 12 ins.   | .15    |
| Ligustrum (wax-leaved), 2-year seedlings, 15 to 18 ins.             | .15    |
| 12 to 15 ins.   | .12½   |
| 10 to 12 ins.   | .10    |
| Mahonia Bealei, 10 to 12 ins.                                       | .25    |
| 3 to 6 ins.   | .10    |
| Nandinas, 6 to 8 ins.   | .15    |
| Pittosporum Tobira, 15 to 18 ins.                                   | .25    |
| 12 to 15 ins.   | .20    |
| 10 to 12 ins.   | .15    |
| Retinospora ericoides, 8 to 10 ins.                                 | .20    |
| 6 to 8 ins.   | .15    |
| Sasanqua Camellias, Cleopatra, Rosea, 8 to 10 ins.                  | .12½   |
| Sasanqua Camellia, Dawn, 8 to 10 ins.                               | .15    |
| Thea Bohea (Chinese tea plant), 10 to 12 ins.                       | .15    |

Terms: Cash with order. Add extra for small orders that can be shipped parcel post prepaid. Large orders shipped express collect.

CALVIN HARMAN NURSERY  
Stovall, Ga.

| QUALITY LINERS   |                  |
|--|------------------|
|  | Per 100 Per 1000 |
| 3,000 Ampelopsis velutina, 2-yr.                               | \$30.00 \$250.00 |
| T.T. F.R.  | 25.00 200.00     |
| 5,000 Azalea mollis, 2-yr. T.                                  | 35.00 300.00     |
| 5,000 Azalea mollis, 3-yr. T.                                  | 35.00 300.00     |
| 1,800 Cornus kousa, 1-yr. S.                                   | 5.50 45.00       |
| 1,000 Euonymus radicans, 2-yr. T.T. F.R. 4 to 5 ins.           | 35.00 300.00     |
| 1,000 Euonymus radicans carrierel, 2-yr. T.T. F.R. 4 to 6 ins. | 35.00 300.00     |
| 1,000 Hydrangea P.G., 1-yr. 9 to 12 ins.                       | 15.00 140.00     |
| 1,500 Hydrangea P.G., 2-yr. T. F.R. 12 to 15 ins.              | 30.00 250.00     |
| 3,000 Pieris japonica, 1-yr. T.                                | 10.00 80.00      |
| 1,000 Quercus borealis, 1-yr. S.                               | 7.00 60.00       |
| 2,000 Rosa rugosa, 1-yr. S.                                    | 5.50 45.00       |
| 1,500 6 to 8 ins.  | 8.50 75.00       |
| 1,500 9 to 12 ins.   | 12.50 110.00     |
| 1,000 Wistaria sinensis, 1-yr. S.                              | 4.50 35.00       |
| 10,000 Rosa multiflora, 2 to 3 mm.                             | 2.50 18.00       |
| 10,000 Rosa multiflora, grafting size                          | 5.00 40.00       |
| 5,000 Rosa rugosa, 12 to 15 ins. T.                            | 25.00 200.00     |
| 5,000 Rosa rugosa, 15 to 18 ins. T.                            | 35.00 300.00     |
| 2,500 Thuja occidentalis, 2-year, T.T.                         | 7.00 60.00       |
| T—once transplanted  |                  |
| T.T.—twice transplanted  |                  |
| F.R.—field row   |                  |

Samples mailed on request.

BOULEVARD NURSERIES  
Newport, R. I.

| LINING-OUT STOCK   |         |
|--|---------|
|  | Per 100 |
| Ilex crenata convexa, 3-in. pots.  | \$20.00 |
| Ilex crenata rotundifolia, 3-in. pots.                                   | 20.00   |
| Ilex cornuta Burfordi, 3-in. pots.                                       | 20.00   |
| Ilex vomitoria (Yaupon, female), 3-in. pots.                             | 20.00   |
| Ligustrum lucidum (wax-leaved), 3-in. pots.                              | 15.00   |
| *Pyracantha formosa, 3½-in. pots.  | 30.00   |
| Quercus sempervirens (Virginia Live Oak), 2-yr. seedlings, 12 to 18 ins. | 10.00   |

Ready for field rows. No charge for packing.

\*Our Pyracantha is exceptionally nice. They are ready for containers or field, being well established in the pots with 10 to 15-in. top growth. Many of them have a few berries.

GOLDSBORO NURSERY, GOLDSBORO, N.C.

## WE GUARANTEE SATISFACTION FROM THESE TOP-QUALITY LINERS!

| Priced per 100.                   |                         |
|-----------------------------------|-------------------------|
|                                   | 6 to 8 to 12 to 15 ins. |
| Abelia Edw. Goucher.              | \$12.50                 |
| Buxus Harlandi.                   | 10.00                   |
| Gardenia Mystery.                 | 10.00                   |
| Gardenia radicans.                | 8.50 10.00              |
| Gardenia stricta nana.            | 8.50 10.00              |
| Ilex Cassine angustifolia.        | 12.50 15.00 17.50       |
| Ilex cornuta Burfordi.            | 12.50 17.50             |
| (also available in potted liners) |                         |
| Ilex crenata microphylla.         | 12.50 15.00             |
| Ilex crenata rotundifolia.        | 10.00 12.50             |
| Ilex vomitoria femina.            | 12.50 15.00             |
| Ligustrum lucidum compactum.      | 10.00 15.00             |
| Loquats.                          | 10.00 15.00             |
| Magnolia fuscata.                 | 10.00 12.50 17.50       |
| Osmanthus fragrans.               | 12.50 15.00             |
| Photinia glabra.                  | 10.00 12.50             |
| Photinia serrulata.               |                         |
| 4 to 6 ins.                       | \$10.00 12.50           |
| Viburnum odoratissimum.           | 10.00 12.50             |
| 6 to 8 ins.                       | 4 to 6 to 8 to 12 ins.  |
| 6 ins. 8 ins. 12 ins.             | (2-yr.)                 |

## CONIFERS

|                          |         |         |         |
|--------------------------|---------|---------|---------|
| Juniperus communis       |         |         |         |
| kiyoniol.                | \$10.00 | \$15.00 | \$17.50 |
| Juniperus glauca Hetzel. | 10.00   | 15.00   | 17.50   |
| Juniperus Pfitzeriana.   | 12.50   | 15.00   | 20.00   |
| Juniperus sylvatica.     | 10.00   | 12.50   | 17.50   |
| Podocarpus alensis.      | 10.00   | 15.00   | 17.50   |

Write for our latest catalog listing many other liners, both potted and bed-grown and also container-grown stock.

COTTAGE HILL NURSERY

Rt. 4, Box 130 Mobile, Ala.

## LINING-OUT STOCK

|  | Each   |
|--|--------|
| Abies Pinsapo, 3-in. pot.                    | \$0.35 |
| Daphne Cneorum, 2-in. pot.                   | .25    |
| Daphne odora, 2-in. pot.                     | .25    |
| Daphne odora, 3-in. pot.                     | .45    |
| Daphne Mezereum, S.                          | .07    |
| 4 to 6 ins.                                  | .12    |
| 6 to 8 ins.                                  | .15    |
| 8 to 10 ins.                                 | .20    |
| 12 to 14 ins.                                | .30    |
| 12 to 15 ins. br. and budded.                | 1.25   |
| Gentiana acaulis, single div.                | .12    |
| Juniperus Meyer, 6 to 8 ins. X.              | .25    |
| Juniperus Meyer, 8 to 10 ins. X.             | .35    |
| Juniperus tamaricifolia, 4 to 6 ins. X.      | .12    |
| 6 to 8 ins. X.                               | .15    |
| 8 to 10 ins. br. X.                          | .27    |
| Japanese Maple, 2-yr. S.                     | .10    |
| Norway Spruce, 3-in. pot. 10 to 12 ins.      | .35    |
| Pieris floribunda, 9 to 12 ins. br.          | .65    |
| Pieris japonica, 4 to 6 ins. br.             | .15    |
| Rhododendron ponticum, 9 to 12 ins.          | .35    |
| Thuja woodwardi globosa, 8 to 10 ins. br. X. | .25    |
| Viburnum Burkwood, 6 to 8-in. pots.          | .30    |
| Viburnum Davidi, X. frame.                   | .50    |
| Raphiolepis ovata, 2-yr. T.                  | .18    |

Cash with order, please.

FOUR STAR NURSERY

8215 238th, S.W. Edmonds, Wash.

## LINING-OUT STOCK

| Priced per 100.                     |                          |
|-------------------------------------|--------------------------|
|                                     | 6 to 8 ins. 8 to 12 ins. |
| Cedrus Deodara                      | \$12.50 \$15.00          |
| Feijoa Sellowiana                   | 12.50 15.00              |
| Gardenia Mystery                    | 8.50 10.00               |
| Gardenia radicans                   | 8.50 10.00               |
| Gardenia stricta nana               | 8.50 10.00               |
| Ilex angustifolia                   | 15.00 17.50              |
| Ilex myrtifolia                     | 15.00 17.50              |
| Ilex Bullata                        | 15.00 20.00              |
| Ilex rotundifolia                   | 15.00 20.00              |
| Ilex Burfordi                       | 15.00 20.00              |
| Ilex Fosteri                        | 15.00 20.00              |
| Ilex East Palatka                   | 15.00 20.00              |
| Illicium anisatum                   | 10.00 12.50              |
| Ligustrum lucidum comp.             | 12.50 15.00              |
| Loquats                             | 10.00 12.50              |
| Nandinas (transplants)              | 12.50 15.00              |
| Osmanthus fragrans                  | 12.50 15.00              |
| Osmanthus yellow                    | 12.50 15.00              |
| Viburnum Tinus                      | 12.50 15.00              |
| Magnolia fuscata, 2½-in. pots, 15c. |                          |
| Japanese flowering Cherry (red)     |                          |
| 12 to 18 ins.                       | \$20.00                  |
| 18 to 24 ins.                       | 30.00                    |
| 2 to 3 ft.                          | 40.00                    |

GRIMES NURSERIES

Semmes, Ala.

## LINING-OUT STOCK

| Per 100                   |                                      |
|---------------------------|--------------------------------------|
|                           | 6 to 8 to 12 to 2½-in. ins. ins. pot |
| Cleyera Japonica,         | 15.00                                |
| 2-yr. ST.                 | 15.00                                |
| Ilex C. Burfordi          | \$15.00 \$17.50 17.50                |
| Ilex cornuta Femina       | 15.00 17.50 17.50                    |
| Ilex C. convexa (Bullata) | 12.50 15.00                          |
| Ilex C. rotundifolia      | 10.00 12.50                          |
| Ilex glabra, CT.          | 15.00                                |
| Ilex opaca Howardi        | 15.00                                |
| Ilex opaca East Palatka   | 17.50                                |
| Osmanthus Fortunei        | 12.50 15.00                          |
| Osmanthus fragrans        | 12.50 15.00 17.50                    |
| Pyracantha formosa.       | 17.50                                |
| Pyracantha C. Lalandi.    | 17.50                                |
| Per 100                   | 8 to 12 12-18 18-24                  |
| Magnolia Soulangeana      | \$25.00 \$30.00 \$35.00              |

Write for our descriptive list of our complete offering of Camellias, Azaleas, Magnolias and other ornamentals.

OVERLOOK NURSERIES, INC.

Crichton Station Mobile, Ala.

## TOP-GRADE LINERS

| 2½-in. pots, 1-YEAR UNDER LATH.                     |          |
|---|----------|
|   | PER 1000 |
| BERCKMANS' BIOTA AUREA NANA.                        | \$0.18   |
| BIOTA BONITA (GLOBE).                               | .18      |
| BIOTIA ARBORVITAE                                   | .18      |
| ANDORRA JUNIPER                                     | .15      |
| CANADENSIS DEPRESSA AUREA (Canadian Gold, Depressa) | .20      |
| GREEK JUNIPER                                       | .16      |
| IRISH JUNIPER                                       | .15      |
| POLISH JUNIPER                                      | .15      |
| JUNIPERUS HETZI GLAUCA                              | .18      |
| PFITZER JUNIPER                                     | .18      |
| PFITZER COMPACT JUNIPER                             | .18      |
| TAXUS HICKSI  | .16      |
| ILEX CORNUTA BURFORDI                               | .15      |
| ILEX CRENATA CONVEXA BULLATA (Box Holly)            | .15      |
| ILEX CRENATA ROTUNDIFOLIA                           | .15      |
| ILEX OPACA HOWARDI (Imp. American Holly)            | .18      |

Write for prices on bed-grown, broad-leaved liners.

TERMS: 2 per cent discount for cash with order. Free packing. Add 2c for each plant on orders of less than 25c. Priced F.O.B. nursery.

E AND S NURSERY

Phone Columbus, Miss. 5342 Caledonia, Miss.

## LARGE QUALITY LINERS

3 to 4 years, field-grown transplants.

Each per 100 per 1000

|   |        |        |
|---|--------|--------|
| Ilex crenata (Jap. Holly), 12 to 15 ins.  | \$0.65 | \$0.55 |
| Berberis Julianae, 10 to 12 ins.          | .50    |        |
| Juniperus chinensis Hetzel, 12 to 15 ins. | .50    | .45    |
| Thuja occ. pyramidalis, 12 to 15 ins.     | .35    | .30    |
| Thuja occ. nigra, 12 to 15 ins.           | .35    | .30    |
| Thuja occ. plicata, 12 to 15 ins.         | .35    |        |
| Thuja occ. compacta, 8 to 10 ins.         | .35    | .30    |
| Cham. plumosa, 12 to 18 ins.              | .35    |        |
| Cham. plumosa aurea, 12 to 15 ins.        | .35    |        |

BULK'S NURSERIES

Babylon, L. I., N. Y.

## PYRACANTHA COCCINEA LALANDI

Hardy stock from selected fruiting plants.

Per 100

2½-in. pots, T. 6 to 8 ins. br. \$22.50

3-in. pots, TT. 8 to 10 ins. br. 32.50

PYRACANTHA KASAN (supply limited).

3-in. pots, TT. 6 to 8 ins. br. 45.00

Free packing. Cash with order.

BABCOCK GARDENS

Rt. 3 Jamestown, N. Y.

## NEW DWARF RED BARBERRY

CRIMSON PYGMY

From 2½-in. pots, \$25.00 per 100, \$225.00 per 1000.

2-year, field, \$60.00 per 100, \$500.00 per 1000.

Ask for general lining-out stock list.

THE COTTAGE GARDENS

Lansing 15, Mich.

## CHOICE ORNAMENTAL LINERS

Our 33rd year growing the better ornamentals. Hardy, healthy, northern-grown cuttings, seedlings, grafts and transplants. Catalog cheerfully on request.

JOHN VERMEULEN & SON, INC.

Neshanic Station, N. J.

## Surplus Stock

can be easily and quickly turned into

by listing it in the

American Nurseryman Classified Ads.

## MAGNOLIAS

MAGNOLIAS, HEAVY 2-YEAR, CUTTING-GROWN.

12 to 18 ins. 18 to 24 ins.

Alexandrina \$0.35 \$0.40
|  |  |  |
| --- | --- | --- |
| Lancelotti | .35 | .40 |
| Liliflora | .30 | .40 |
| Lombardy Rose | .35 | .35 |
| Nigra | .30 | .35 |
| Pink Alba Superba | .35 | .40 |
| Rustica Rubra | .35 | .40 |
| Small-flowering Soul | .35 | .40 |
| Soulangeana | .35 | .40 |
| Grace McDade | .40 | .50 |

SEMMES NURSERIES

Semmes, Ala.

## ORIENTAL MAGNOLIAS

Magnolia rustica rubra, Magnolia Soulangeana and Magnolia Soulangeana nigra. All 2-year, nice, heavy liners that are sure to please. Can be shipped any time prior to February 15.

Per 100

8 to 12 ins., 2-yr. liners \$25.00
|  |  |
| --- | --- |
| 12 to 18 ins., 2-yr. liners | 30.00 |
| 18 to 24 ins., 2-yr. liners | 35.00 |
| 2 to 3 ft., 2-yr. liners | 45.00 |

BLACKWELL NURSERIES

Semmes, Ala.

## Wholesale Only

## ORIENTAL MAGNOLIAS

Magnolia Soulangeana and Soulangeana nigra, bed-grown.

Per 100

8 to 12 ins. \$25.00
|  |  |
| --- | --- |
| 12 to 18 ins. | 30.00 |
| 18 to 24 ins. | 35.00 |
| 2 to 3 ft. | 45.00 |

WELCH BROS. NURSERY

Wilmer, Ala.

## PEONIES

## PEONIES

|                      | Quantities available         |
|----------------------|------------------------------|
| Baroness Schroeder   | 3 to 2 to 5-eye 3-eye 115 40 |
| Bunker Hill          | 190 70                       |
| Clairette            | 20 15                        |
| Duchess of Portland  | 70 15                        |
| Edulia Superba       | 275 175                      |
| Felix Crousse        | 335 109                      |
| Festiva Maxima       | 230 145                      |
| Georgiana Shaylor    | 40 20                        |
| Karl Rosefield       | 35 65                        |
| Lady Alexander Duff  | 32 83                        |
| L'Etoile de Hollande | 33 40                        |
| Longfellow           | 95 70                        |
| Mme. de Verneville   | 60 25                        |
| Mons. Jules Elie     | 715 195                      |
| Nippon Beauty        | 30 48                        |
| Reine Hortense       | 69 33                        |
| Samuel Hughes        | 123 33                       |
| Sarah Bernhardt      | 40 45                        |
| Solange              | 6 40                         |
| Venus                | 155 90                       |

## THE ENTIRE LOT ONLY:

3 to 5-eye, 25c; 2 to 3-eye, 18c. Cut from young block.

## HILLENMEYER NURSERIES

Lexington, Ky.

## GRAFTED TREE PEONIES.

ATHA NURSERY, WEST LIBERTY, O.

## PHLOX

**PHLOX SUBULATA** (Creeping Phlox)  
Admiral, dainty pink with white eye.  
Alba, pure white flowers.  
Astro, deep orchid-rose.  
Blue Hill, showy pale blue.  
Butterfly, white with blue bluish, purple eye.  
Crimson Beauty, classy cyclamen-red.  
Sensation, pure pink with red eye.  
Nice liners with roots from field clumps, \$5.00 per 100, \$45.00 per 1000, prepaid.  
250 or more of a variety at 1000 rate.  
Properly packed and labeled, and shipped transportation prepaid. Cash, please.

## TANGLEWOOD FARM

Box 336-N Clinton, S. C.

**PHLOX SUBULATA** (Creeping Phlox)  
Alba, pure white flowers.  
Blue Hill, showy pale blue.  
Butterfly, white with blue bluish, purple eye.  
Crimson Beauty, classy cyclamen-red.  
Good-size, started transplants from field rows, \$10.00 per 100, \$95.00 per 1000, prepaid.  
250 or more of a variety at 1000 rate.  
Properly packed and labeled, and shipped transportation prepaid. Cash, please.

## TANGLEWOOD FARM

Box 336-N Clinton, S. C.

## HARDY PHLOXES.

Write for price list and special prices on large lots. A 14x21 color Phlox poster with orders of \$15.00 or more.  
**MARVIN HOZZEE, R. 2, LYNDEN, WASH.**  
Growers of hardy Phloxes.

## ROSEBUSHES

## ROSEBUSHES

2-year field-grown rosebushes for immediate or later shipment. All plants state-inspected, dug and shipped fresh from our own fields. Tied in bundles of 10 of a grade and variety.

TERMS: Cash, or 25 per cent cash and balance C.O.D. Packing free.

## PRICES

Lots of 100 to 500 Lots of 500 to 1000  
No. 1 grade, 30c ea. No. 1 grade, 27c ea.  
No. 1 1/2 grade, 23c ea. No. 1 1/2 grade, 20c ea.  
No. 2 grade, 18c ea. No. 2 grade, 16c ea.

## RED

Red Radiance Golden Charm  
Ami Quinard Soeur Therese  
Etoile de Hollande Yellow Tallman  
Syracuse Luxembourg  
Poinsettia Lady Hillingdon  
Better Times Mrs. Pierre S. du Pont

## PINK

E. G. Hill TWO-TONE  
Francis Scott Key Betty Upchurch  
Pink Radiance Tallman  
Mrs. Chas. Bell Pres. Hoover  
Editor McFarland Condesa de Sagato  
Shell Radiance Girona  
Columbia CLIMBERS  
Cynthia Primrose  
Briarcliff Caledonia  
Doctor

## POLYANTHOS

and  
**FLORIBUNDAS**  
Cecile Brunner Pink Radiance  
Chailion Paul's Scarlet  
Eblouissant Mrs. P. S. du Pont  
Katharina Zelmet Tallman  
Golden Salmon White American  
Red Ripples Beauty  
Red Lafayette Poinsettia  
Floradora Yellow Tallman  
Golden Charm

## WHITE

Frau Karl Druschki Red Tallman  
Kais. A. Viktoria Marechal Niel  
Konigian Luise Kais. A. Viktoria  
White American Beauty

## WELLS BROS. NURSERY

Box 625 Lindale, Tex. Phone 12F4W

## ROSEBUSHES

No BETTER Rosebushes can be had from any source at any price. A trial order will convince the most skeptical. Roses may be shipped now or later.

## RED

Red Tallman  
Better Times  
Red Radiance  
Etoile de Hollande  
Syracuse  
Rouge Mallerin  
Grenoble  
Poinsettia  
Ami Quinard  
Chas. H. Douglas

## PINK

Betty Upchurch  
Editor McFarland  
Columbia  
Pink Radiance  
Mrs. Chas. Bell  
Doctor  
Picture  
Contrast  
Nuna Fay  
TWO-TONE

## TALLMAN

Pres. Hoover  
E. N. Perkins  
Condesa de Sagato  
YELLOW  
Golden Charm  
Golden Dawn  
Golden Ophelia  
Soeur Therese  
Luxembourg  
Betty Grace Clark  
Golden Sagato

PRICES: Bare-root, F.O.B. Overton, Tex.

No. 1 ..... 32c ea. 28c ea.  
No. 1 1/2 ..... 27c ea. 23c ea.  
No. 2 ..... 18c ea. 16c ea.

INDIVIDUALLY WRAPPED, paraffin dipped, with picture tag for counter trade, 15c extra per bush, 3 in 1, No. 2, at 75c per pack. Cash with order, or 25 per cent deposit and balance C.O.D.

NEW LONDON ROSES Overton, Tex.

Box 876

## SPECIAL NOTICE

We have around 20,000 nice rosebushes, well-branched, healthy plants of grades No. 1 1/2 and No. 2. These consist of the good, popular varieties in demand most. These can be purchased reasonably. Fine for packaging or special. No trash. Also very fine climbers, in Nos. 1, 1 1/2, 2 and Jumbo; Blaze, Paul's Scarlet, Tallman, Druschki, Pierre du Pont, Pink Radiance, Editor McFarland, New Dawn. Get our price before you buy. Phone 2-2023 or contact

CRAFTS ROSE ACRES Tyler, Tex.

Rt. 3

**THORNY ROSA MULTIFLORA.**  
We have about 750,000 very nice, upright seedlings, grown under irrigation.  
2 to 3 mm. caliper ..... \$10.00 per 1000  
3 to 6 mm. caliper ..... 16.00 per 1000  
6 to 12 mm. caliper ..... 30.00 per 1000  
Bed-run, 2 mm. up ..... 12.50 per 1000  
10 per cent off on orders of 10,000 or more.  
No packing charge. F.O.B. Vandalia, Ill.

MESTEL NURSERY Route 2, Vandalia, Ill.

## ROSA MULTIFLORA JAPONICA

Strong 8-in., well-rooted, 1-year, de-eyed cuttings, suitable for budding. A vigorous mildew resistant strain. \$30.00 per 1000. Sample on request.

MELVIN E. WYANT  
Rose Specialist, Inc.  
Mentor, O.

**ROSA MULTIFLORA**  
Rooted cuttings for budding.  
De-eyed for better root system.  
\$32.00 per 1000.  
Rooted cuttings for Multiflora hedging.  
Cut back to 18 ins.  
\$22.50 per 1000.

Special prices on quantity orders.  
**FELIX ZAMPINI & SONS**  
Rose growers Painesville, O.

**NORTHERN OHIO GROWN ROSES**  
Naturally Matured—Conscientiously Handled  
If you have not as yet received it, ask for our list of Hybrid Teas, Floribundas and Climbers in the newest and best varieties.

For 30 years a consistently reliable source of finer roses.  
GERARD K. KLYN, Inc.  
Mentor, O.

**ROSES**  
KISSED BY THE BREEZES OF LAKE ERIE GROWN IN THE BEST LOCATION IN THE NATION, WHICH GIVES THE FINEST MATURED ROSEBUSHES.  
Write today for variety and price list.  
Rose growers for 34 years.  
**FELIX ZAMPINI & SONS**  
Painesville, O.

**ROSA RUGOSA.** 100 1000  
2000 1-year seedlings ..... \$5.50 \$45.00  
1500 5 to 8 ins. .... 8.50 75.00  
1500 9 to 12 ins. .... 12.50 110.00  
5000 12 to 15 ins. T. .... 25.00 200.00  
5000 15 to 18 ins. T. .... 35.00 300.00

**BOULEVARD NURSERIES**  
Newport, R. I.

## ROSEBUSHES

## 2-yr. plants.

Grown, graded and packed to perfection. Complete assortment of varieties.

WRITE TODAY FOR PRICES AND BOOK YOUR REQUIREMENTS NOW!

## ROSEMONT NURSERIES

D. L. Thompson, Owner

Dept. AN

Tyler, Tex.

## ROSEBUSHES

Good roses will not be in oversupply. Early bookings are indicated. List now ready. Send for your copy today.

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P. O. Box 155 Tel.: 713 Arp, Tex.

ARP-GROWN ROSEBUSHES, beautifully packaged for display or direct-to-garden mail order and bare-root for landscape. Service to nurseries for 33 years. Write for price list. ARP NURSERY CO., WHOLESALE GROWER, Box 867-A, Tyler, Tex.

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No. 1 in many varieties.

Ask for our surplus.

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1263 West A St. Ontario, Calif.

ROSEBUSHES: Good assortment. No. 1, 30c. No. 1 1/2, 24c; No. 2, 18c in lots 400 and up. List on request. TATE NURSERY, Rt. 3, Tyler, Tex. Since 1935.

## ROSE STOCK

## ENGLISH MANETTI.

6 to 9 mm. for grafting or budding.

\$36.00 per 1000. F.O.B. Nursery, England.

## PARMENTIER'S ROSES

Bayport, L. I. N. Y.

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## 1954 CROP

American Holly berries, \$1.00 per lb.; 10 lbs. or more, 90c per lb.

**DECIDUOUS HOLLY (ILEX DECIDUA).**  
A beautiful ornamental plant with brilliant red berries all winter; also a wonderful understock for all varieties of American Holly, due to its massive root system which greatly increases growth and insures greater livability in transplanting. Berries, \$1.25 per lb. Orders less than \$5.00, please add 50c for postage. All other orders prepaid.

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Rt. 4, Box 240

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## ROBINIA SEEDS

New hybrids, colors and shades from this seed for your future nursery catalog. Seed of Robinia, Monument and Pseudacacia californica, \$1.00 per pkg., 4 pkgs., \$3.00. Our proven seedlings are tall, dwarf, cylindrical and vase-shaped.

## WM. E. SILVA, Hybridizer

408 Water Trough Rd. Sebastopol, Calif.

**NANDINA SEED** from heavy bearing stock, \$1.50 per lb.; 25 lbs. or more, \$1.35 per lb. Check with order, please. F.O.B.

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## SHRUBS AND TREES

## FLOWERING CRAB APPLES

Crimson Brilliant (patent No. 939): 4 to 5 ft. 2-year trees, \$3.50 each; 3 for \$9.75; \$35.00 per doz.

1-year budded: Aldenham, atroanguea, Eleyi, floribunda, Hops, micromala, purpurea, Scheideckeri, toringoides, 3 to 4 ft., 80c; 4 to 5 ft., \$1.00; 5 to 6 ft., \$1.25. Whips 25 per cent less.

1-year budded: Arnold, Dolgo, floribunda, hupehensis, Parkman, Spec. alba plena, Zumi calocarpa, 2 to 3 ft., 70c; 3 to 4 ft., 90c; 4 to 5 ft., \$1.20. Whips 25 per cent less.  
Sargent: 2 to 3 ft., 90c; 3 to 4 ft., 1.10; 4 to 5 ft., 1.35; 5 to 6 ft., 1.65; 6 to 7 ft., 1.90. Whips 25 per cent less.

Newer varieties: Almey, B. Jacki, B. mandshurica, Bob White, Charlotte, Dorothea, Evelyn, Irene, Katherine, Kingmare, Le-moine, Magdeburg, Marshall Oyama, Nieuwlandiana, Patricia, Prince Georges, Purple Wave, Redfield, Redford, Sargent, Rosea, Spec. Rivalis, Van Eseltine, Arn. Arb. 19039, Arn. Arb. 33340, Morden 19-27, Morden 19-85, Morden 457, VC-4, Ill. loensis 825, 18 to 24 ins., 80c; 2 to 3 ft., \$1.00; 3 to 4 ft., \$1.35; 4 to 5 ft., \$1.65; 5 to 6 ft., \$1.90. Whips 25 per cent less.  
1-year root grafts, all whips: Almey, Dorothea, floribunda, Katherine, Purple Wave, Redfield, Spec. Rivalis, Spec. alba plena, Van Eseltine, 12 to 18 ins., 40c; 18 to 24 ins., 60c; 2 to 3 ft., 65c; 3 to 4 ft., 80c; 4 to 5 ft., 95c; 5 to 6 ft., \$1.10.

**THUNDERCLOUD PURPLE-LEAVED PLUM:** Tree form, 3 to 4 ft., 75c; 4 to 5 ft., 90c; 5 to 6 ft., \$1.10; 6 to 7 ft., \$1.25.

**CORNUS KOUSA CHINENSIS:** 3-year seedlings (bare-root), 2 to 3 ft., \$1.00; 3 to 4 ft., \$1.50; 4 to 5 ft., \$2.00.  
Packing additional at cost. For less than 10 of a kind, add 10 per cent.

## SIMPSON ORCHARD CO.

Box 88 Vincennes, Ind.

SEE OUR AD UNDER LINING-OUT STOCK.

## NAUGHER NURSERY

Chase, Ala.

## SHRUBS AND TREES—Continued

| ORNAMENTALS, HEAVY BED-GROWN |              |              |               |
|------------------------------|--------------|--------------|---------------|
|                              | 4 to 6 ins.  | 6 to 8 ins.  | 8 to 12 ins.  |
| Buxus Harlandi               | .....\$0.10  | .....        | .....         |
| Buxus japonica               | ......10     | .....\$0.12½ | .....         |
| Buxus sempervirens           | ......10     | .....        | .....         |
| Cleyera japonica             | ......12½    | ......15     | .....\$0.17½  |
| Nandina, ST                  | ......10     | ......12½    | .....         |
|                              | 6 to 8 ins.  | 8 to 12 ins. | 12 to 18 ins. |
| Elaeagnus Fruitlandi         | .....\$0.12½ | ......15     | .....         |
| Elaeagnus pungens            | ......12½    | ......15     | .....         |
| Eurya japonica               | ......12½    | ......15     | .....\$0.17½  |
| Feljoa Sellowiana            | ......10     | ......12½    | ......15      |
| Flowering Cherry             | .....        | ......20     | .....         |
| Ilex Cassine                 | .....        | .....        | .....         |
| angustifolia                 | ......12½    | ......15     | ......17½     |
| Ilex rotundifolia            | ......15     | ......17½    | ......20      |
| Jasminum                     | .....        | .....        | .....         |
| primulinum                   | ......10     | ......12½    | ......15      |
| Cherry-Laurel, ST            | ......10     | ......12½    | ......15      |
| English Laurel               | ......10     | ......12½    | ......15      |
| Ligustrum ciliatum           | .....        | .....        | .....         |
| var.                         | ......10     | ......12½    | ......15      |
| Ligustrum luc. comp.         | ......10     | ......12½    | ......15      |
| Ligustrum Erectum            | ......10     | ......12½    | ......15      |
| Ligustrum Japonicum          | ......05     | ......07½    | ......10      |
| Ligustrum repandum           | ......10     | ......12½    | ......15      |
| Photinia glabra              | ......10     | ......12½    | .....         |
| Viburnum odoratissimum       | ......10     | ......12½    | ......15      |
| Retinospora ericoides        | ......10     | ......12½    | ......15      |
| Magnolia fuscata             | ......12½    | ......15     | .....         |
| Ilex cornuta                 | .....        | .....        | .....         |
| Burfordi                     | ......15     | ......20     | .....         |

## POTS

|                                      |             |
|--------------------------------------|-------------|
| Euconymus                            | .....\$0.15 |
| Ilex cornuta Burfordi, 2½-in., 2-yr. | ......20    |
| Ilex cornuta femina, 2½-in., 2-yr.   | ......20    |
| Jasminum Floridum, 2½-in.            | ......15    |
| Oleanders, red, 3-in.                | ......17½   |

## SEEDLINGS AND TRANSPLANT VALUES

MULTIFLORA ROSE (Rosa multiflora japonica). Thorny, upright type, propagated from mature midwest fences.

Our stands have never been better and with our irrigation and fertilization program, we have produced exceptionally fine plants this year. Each year we grow several million seedlings and every year for the past 10 years we have been short in the spring. We urge you to cover your requirements promptly.

2/16 to 3/16-in. cal., 10 to 15 ins. ....\$15.00 per 1000  
3/16 to 1/4-in. cal., 15 to 18 ins. 25.00 per 1000  
1/4 to 3/8-in. cal., 18 to 24 ins. 35.00 per 1000  
Plants top and root trimmed prior to shipping.

## PRUNUS AMERICANA, seedlings.

2/16 to 3/16-in. cal., 12 to 15 ins. ....\$20.00 per 1000  
3/16 to 1/4-in. cal., 15 to 18 ins. 30.00 per 1000  
1/4 to 3/8-in. cal., 18 to 24 ins. 50.00 per 1000

## TUJA ORIENTALIS, ROCHESTER STRAIN

Seed collected from plantation trees at Soil Conservation Nursery. One of best plants for screening that we know of. Fast grower; can be trimmed to hedging size of 3 feet.

4 to 6-in. seedlings .....\$20.00 per 1000

JUNIPERUS VIRGINIANA, produced form.

J. VIRGINIANA GLAUCOA seed, definitely a better colored, more compact type.

12 to 15 ins. ....\$25.00 per 1000

Priced F.O.B. Elaberry. No packing charge.

FORREST KEELING NURSERY

Elaberry, Mo.

| SEEDLINGS                           |              |              |
|-------------------------------------|--------------|--------------|
|                                     | Per 100      | Per 1000     |
| Acer palmatum,                      |              |              |
| 1-yr., 3 to 5 ins.                  | .....\$ 6.00 | .....\$50.00 |
| Juniperus virginiana,               |              |              |
| 2-yr., 6 to 12 ins.                 | .....8.00    | .....50.00   |
| Juniperus virginiana, 8 to 12 ins., |              |              |
| graded understocks                  | .....10.00   | .....75.00   |
| Ligustrum Regelianum, S.,           |              |              |
| 12 to 18 ins.                       | .....10.00   | .....60.00   |
| Ligustrum Regelianum, S.,           |              |              |
| 18 to 24 ins.                       | .....12.00   | .....80.00   |
| Austrian Pine,                      |              |              |
| 2-yr., run of beds                  | .....3.00    | .....20.00   |
| 2-yr., 3 to 5 ins., graded          | .....3.50    | .....25.00   |
| 3-yr., 6 to 12 ins., graded         | .....5.00    | .....35.00   |
| Scotch Pine,                        |              |              |
| 2-yr., run of beds                  | .....3.00    | .....20.00   |
| 2-yr., 4 to 8 ins., graded          | .....3.50    | .....25.00   |
| 3-yr., 6 to 12 ins., graded         | .....5.00    | .....35.00   |
| Colorado Spruce,                    |              |              |
| 2-yr., 1½ to 3 ins., graded         | .....4.00    | .....25.00   |
| Norway Spruce,                      |              |              |
| 2-yr., run of beds                  | .....2.50    | .....15.00   |
| 2-yr., 4 to 8 ins., graded          | .....3.50    | .....25.00   |
| 3-yr., run of beds                  | .....4.50    | .....25.00   |
| 3-yr., 6 to 12 ins., graded         | .....5.00    | .....30.00   |
| Taxus capitata, 2-yr., 3 to 6 ins.  | .....10.00   | .....90.00   |

A complete catalog on request.

HEASLEY'S NURSERIES

Freeport Rd. Butler, Pa.

| QUALITY STOCK                |              |               |
|------------------------------|--------------|---------------|
|                              | Per 100      | Per 1000      |
| Yaupon Holly, T.,            |              |               |
| 6 to 12 ins.                 | .....\$ 5.00 | .....\$ 40.00 |
| Yaupon Holly, T.,            |              |               |
| 12 to 18 ins.                | .....8.00    | .....70.00    |
| Live Oaks, field-grown,      |              |               |
| 12 to 18 ins.                | .....5.00    | .....40.00    |
| 2 to 3 ft.                   | .....12.00   | .....100.00   |
| 3 to 4 ft.                   | .....15.00   | .....125.00   |
| Laurel Cherry, 12 to 18 ins. | .....5.00    | .....40.00    |

L. H. BUTTER NURSERY

Box 205, Forest Hill, La.

## ORDER YOUR

## ROOTED CUTTINGS

## NOW

## FOR SPRING DELIVERY

Cuttings taken from clean, healthy, vigorous plants and rooted by us in our own greenhouses. We are accepting orders for delivery April and May, 1955.

|                   |                        |
|-------------------|------------------------|
| Ilex convexa      | Juniperus Pfitzeriana  |
| Ilex rotundifolia | Juniperus Andorra      |
| Ilex microphylla  | Taxus Hickal           |
| Ilex Helleri      | Taxus Hunnewelliana    |
| Ilex Glase        | Taxus cuspidata        |
| Ilex glabra       | Arbervitae pyramidalis |
| Ilex crenata      | Arbervitae Woodwardi   |
| (upright)         | (globe)                |

Buxus sempervirens .....\$35.00 per 1000

Junipers .....80.00 per 1000

Arbervitae and Boxwood .....75.00 per 1000

Shipped according to your directions. Shipping charges added to order. Packing free.

CONNER & AMOS, INC.

129 Dutch Road

Charleston, W. Va.

## KOREAN BARBERRY

An aristocrat of shrubs as specimen and for its yellow flowers and orange fruits in pendulous clusters.

Heavy 3-yr., field-grown, 30 to 36 ins. ....\$0.45

Priced to sell, 35 to 42 ins. ....55

CORNUS MASCULA (Cornelian-Cherry)

30 to 36 ins. ....50

Heavy, 3-yr. plants, 3 to 4 ft. ....60

DEUTZIA LEMOINEI COMPACTA

Heavy, 3-yr. plants, 18 to 24 ins. ....40

HYPERICUM KALMIANUM

(Pot-O'-Gold)

Hardy, bushy, compact, colorful. One of the finest low specimen shrubs.

Compact, 2-yr. plants, 15 to 18 ins. ....40

KOLKIVITZIA AMABILIS

Heavy 3-yr. plants, 30 to 36 ins. ....50

36 to 42 ins. ....60

SILVER LACE

No. 1 vines .....40

Medium grade .....30

Send for complete trade list.

SCARFF'S NURSERY, New Carlisle, O.

## COTONEASTERS AND BUDDLEIAS

Excellent finished landscape material. Each, per 100

Cotoneaster divaricata, 3-yr., B&B

2 to 3 ft. ....\$1.75

3 to 4 ft. ....2.00

4 to 4½ ft. ....2.50

Cotoneaster Zabelli, 3-yr., B&B, 2 to 3 ft. 1.50

Cotoneaster divaricata, 2-yr., L.O.S. ....37½

18 to 24 ins.

Buddleias (Summer Lilac), well branched,

1-year.

Charming, pink; 2 to 3 ft. ....\$0.35

Dubonnet, lavender; 2 to 3 ft. ....35

Imperial Purple, purple; 2 to 3 ft. ....40

Red Velvet, red; 2 to 3 ft. ....45

Snowbank, pure white; 2 to 3 ft. ....35

Spring delivery.

FLORAL GARDENS, EATON, O.

## CHINESE ELM

Per 100

2 to 4 ft. ....\$ 10.00

4 to 6 ft. ....20.00

6 to 8 ft. ....40.00

8 to 10 ft. ....75.00

10 to 12 ft. ....100.00

## WASHAM NURSERY

Sweetwater, Tex.

## SURPLUS TREES AT REDUCED PRICE

ROBINIA PSEUDOACACIA (Black Locust).

2 to 5-in. caliper, straight, clean trunks, well branched. This flowering tree is one of the fastest growers, yet one of the toughest. It is used on highways and government projects.

HIDDEN VALLEY NURSERY

Phone: MI-7-1158 Millington, N. J.

**For \$3.50**

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

**AT 35c PER LINE**

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the next issue to reach us by January 14.

**AMERICAN NURSERYMAN**

343 S. Dearborn St. CHICAGO 4, ILL.

## PINK-FLOWERING DOGWOOD

|                                      | Each        |
|--------------------------------------|-------------|
| 6 to 12 ins., B.R.                   | .....\$0.50 |
| 12 to 18 ins., B.R.                  | ......75    |
| 18 to 24 ins., B.R.                  | .....1.00   |
| 24 to 30 ins., B.R.                  | .....1.25   |
| 30 to 36 ins., B.R.                  | .....1.50   |
| 3 to 4 ft., 1-yr.                    | .....2.00   |
| 3 to 4 ft., 2-yr.                    | .....3.00   |
| Pink Dogwood, dormant budded liners, |             |
| \$25.00 per 100                      | .....       |

## WHITE-FLOWERING DOGWOOD

|                                 | Each        |
|---------------------------------|-------------|
| 12 to 18 ins., B.R., 2-yr., br. | .....\$0.98 |
| 18 to 24 ins., B.R., 2-yr., br. | ......12    |
| 24 to 30 ins., B.R., 2-yr., br. | ......25    |
| 30 to 36 ins., B.R., 2-yr., br. | ......35    |

IKE HAWKERSMITH NURSERY

Winchester, Tenn.

## LINING-OUT STOCK

|                                     | Each        |
|-------------------------------------|-------------|
|                                     | Per 100     |
| Buxus sempervirens,                 |             |
| 4-in. pot, TT.                      | .....\$0.50 |
| Ilex latifolia, 4-in. pot, TT.      | ......50    |
| Ilex opaca, 4-in. pot, TT.          | ......50    |
| Pyracantha coccinea, 4-in. pot, TT. | ......50    |
| Taxus brevifolia, 4-in. pot, TT.    | ......50    |
| Taxus cuspidata, 4-in. pot, TT.     | ......50    |
| Taxus densiformis, 4-in. pot, TT.   | ......50    |
| Taxus Hatfield, 4-in. pot, TT.      | ......50    |
| Pin Oak, S., 1-yr.                  | ......08    |
| Washington Hawthorn,                |             |
| 2-yr., S., 9 to 12 ins.             | ......20    |
| Washington Hawthorn,                |             |
| 2-yr., S., 12 to 15 ins.            | ......22½   |

HOULIHAN NURSERY CO.

Creve Coeur, Mo.

## VIBURNUM CARLESI

This is the first time since the beginning of the war that we have been able to offer a supply of Viburnum Carlesi seedlings. All these years we have not been able to buy any seed and still cannot, but can offer these seedlings because we have our own seed by this time. We offer the following for spring, 1955:

|                         | Per 100      | Per 1000      |
|-------------------------|--------------|---------------|
| Strong, 2-yr. seedlings | .....\$15.00 | .....\$125.00 |
| 4 to 6 ins.             | .....20.00   | .....175.00   |
| 6 to 8 ins.             | .....20.00   | .....175.00   |
| 8 to 12 ins.            | .....30.00   | .....250.00   |

Transplants, branched, mail-order size, 12 to 18 ins., \$75.00 per 100.

## C. HOOGEENDOORN

Turner Rd. Newport, R. I.

## PAPER BIRCH (Betula papyrifera)

|            | Per 100     | Per 1000     |
|------------|-------------|--------------|
| 3 to 4 ft. | .....\$4.00 | .....\$35.00 |
| 4 to 5 ft. | .....6.50   | .....60.00   |
| 5 to 6 ft. | .....7.00   | .....65.00   |

## WHITE BIRCH (Betula pendula)

|            | Per 100     | Per 1000     |
|------------|-------------|--------------|
| 3 to 4 ft. | .....\$4.00 | .....\$35.00 |
| 4 to 5 ft. | .....6.50   | .....60.00   |
| 5 to 6 ft. | .....7.00   | .....65.00   |

## WHITE BIRCH SEEDLINGS

|               | Per 100     | Per 1000     |
|---------------|-------------|--------------|
| 6 to 9 ins.   | .....\$3.00 | .....\$25.00 |
| 9 to 12 ins.  | .....4.00   | .....35.00   |
| 12 to 18 ins. | .....5.00   | .....45.00   |
| 18 to 24 ins. | .....6.00   | .....55.00   |

## RIGBY NURSERY CO.

9941 N. E. Skidmore St.

Portland 20, Ore.

## RED MAPLES

## JAPANESE MAPLE SEEDLINGS

## 100 PER CENT RED

Well-hardened, branched transplants.

Each Each

3-yr., XXX, 10 to 12 ins., SOLD OUT.

2-yr., XX, 8 to 10 ins. ....\$0.45

2-yr., XX, 10 to 15 ins. ....55

Extra nice liners ready for open field planting. About pencil thickness.

A 20 per cent deposit will reserve your order.

HUBBS NURSERY CO.

Rt. 130 Riverport, N. J.

Specializing in maple seedlings.

## ALTHAEAS, BUSH FORM

2 to 3 ft., bare-root, 25c.

3 to 4 ft. and up, bare-root, 35c.

Boule de Feu (double, purple-red)

Jeanne d'Arc (double pure white)

Lady Stanley (double white, red center)

Lucy (double red)

Paeoniflora (double pale pink, splashed carmine)

Ardens (double violet)

Purpurea Semiplena (double purple).

TWITTY NURSERY

P. O. Box 777 Texarkana, Tex.

## LIST NOW AVAILABLE

Write for our new price list on shade trees, shrubbery and evergreens. Good-quality stock at prices you can afford to pay. For example: Compact plants, B&B.

Each

Irish Juniper, 2 to 3 ft. ....\$1.25

Pfitzer Juniper, 15 to 18 ins. ....1.50

Nandina, 18 to 24 ins. ....1.00

ROLLER'S NURSERY

</



SURPLUS EVERGREENS  
AT LOW PRICES.

Also Acer saccharum.  
(Hard Sugar) Maple.)  
1 to 1 1/2-in. caliper.  
10 or more, \$2.25 each.

UNADILLA NURSERY  
Johnson City, N. Y.

## CHINESE ELM

Transplants, branched.

|             | Per 100 |
|-------------|---------|
| 4 to 6 ft.  | \$25.00 |
| 6 to 8 ft.  | 50.00   |
| 8 to 10 ft. | 90.00   |

25 at the 100 rate. Liberal grading.  
GRUNDY'S GARDENS  
Anton, Tex.

## ABELIA GRANDIFLORA

Heavily branched, excellent color.

|               | Per 100 | Per 1000 |
|---------------|---------|----------|
| 18 to 24 ins. | \$35.00 | \$300.00 |
| 2 to 3 ft.    | 40.00   | 350.00   |

Special discount on carload or truck lots.  
CHIPOLA NURSERIES  
Marianna, Fla.

DOUBLE PINK JAPANESE FLOWERING  
CHERRIES (Kwanzan)

|                                    | Per 100 |
|------------------------------------|---------|
| Strong 1-yr. grafts, 12 to 18 ins. | \$50.00 |
| Strong 1-yr. grafts, 18 to 24 ins. | 75.00   |

C. HOOGENDOORN

Turner Rd., Newport, R. I.

AZALEAS—Hinodegirl, 4 to 7 ins., potted,  
50c; field-grown, 10 to 12 ins., \$1.25; 12 to  
16 ins., \$1.75. Holly, 3-year-old, bushy strain,  
cut back twice, \$3.00 each. Your truck.

L. E. HERRING

110 High St., Eatontown, N. J.

## TREE SEEDLINGS

Quercus shumardi (Shumard Red Oak)  
Seedlings, 4 to 6 ins., \$6.00 per 100  
Seedlings, 6 to 8 ins., 8.00 per 100  
Spring delivery.

FLORAL GARDENS, EATON, O.

## WELL-ESTABLISHED CHERRY-LAUREL.

In 3-in., \$15.00 per 100.

Pfitzer, rooted cuttings, now ready,  
\$5.00 per 100.

W. G. ESCOTT, FORT SMITH, ARK.

Field, lath and container-grown nursery  
stock at reasonable prices. Azalea, Camellia,  
Gardenia, Ligustrum, Elaeagnus, Photinia,  
Serissa, etc. EVANGELINE NURSERY, 6 mi.  
East of Lafayette, La., on U. S. 90.

## NANDINA DOMESTICA SEEDLINGS

6 to 8 ins., \$8.00 per 100, \$70.00 per 1000.  
PINKSTONE NURSERIES  
Parrott, Ga.

ABELIA GRANDIFLORA, good, field-  
grown liners, cut back once, \$75.00 per 1000.  
MOUNTAIN NURSERIES  
Mountville, Ga.

## VEGETABLE ROOTS

## GARDEN ROOTS 100 1000

Victoria Red Rhubarb, No. 1 diva. \$17.50 \$150.00

An excellent commercial red strain.

Linnasea Rhubarb, 2-year roots, 5/8 to 1-in. cal. 6.50 \$ 50.00

1 to 1 1/2-in. cal. 8.50 65.00

1 1/2 to 2-in. cal. 10.00 90.00

2-in. up cal. 13.50 125.00

Paradise Asparagus, 2-year. 3.00 22.50

heavy 3-year clumps 6.00 45.00

New Calif. "500", 2-year. 3.50 25.00

heavy 3-year clumps 7.50 ....

All in storage for prompt shipment.

SCARFF'S NURSERY, New Carlisle, O.

## ASPARAGUS ROOTS

Per 1000

Mary Washington, 2-year plants. \$17.00

1,000 to 5,000 plants. 16.00

5,000 to 10,000 plants. 16.00

10,000 plants and over. 15.00

Approximate weight per 1000 plants,

packed for shipment, 90 lbs. No packing

charges for cash with order. Satisfaction

guaranteed.

FRITCHARD NURSERIES

Rt. 4 Ottawa, Kan.

## CHIPMAN'S CANADA RED RHUBARB

No. 1 divisions, by the 100 or 1000.

Write for prices.

CHAPMAN'S BERRY FARM

East Leroy, Mich.

Phone Athens PA 9-7779

## Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

## VINES

## HONEYSUCKLES.

Lonicera japonica Halliana, extra-heavy  
No. 1, 3 and 4-yr., 18 to 24-in. field plants, 3  
and 4 leads, \$40.00 per 1000; lighter grade,  
\$30.00 per 1000; sample 100, \$5.00. Ex-  
perienced labor for grading and packing  
quantity orders. Immediate shipment. No  
order too large.

ROBINSON NURSERY CO.

Greenville, Ga.

## GRAPE CUTTINGS

Concord, Niagara, Fredonia, Moore's Early.  
First-grade cuttings, approximately 10 to 12  
ins., 3 or more nodes, wire tied, 5000 or  
more, \$4.60 per 1000. Less than 5000, \$5.60  
per 1000.

CLINGER NURSERY

Highway 71 West Rogers, Ark.

## CLEMATIS VINES

Each, per 10 per 100

Ernest Markham, petunia red. \$0.50 \$0.45

Duchess of Edinburgh, double

white .50 .45

Ramona, blue .50 .45

Montana rubra, 3-in. pdr. .55 ..

Cash with order, please.

FOUR STAR NURSERY

\$215 238th S.W. Edmonds, Wash.

CONCORD GRAPE CUTTINGS, expertly

cut and tied with wire, 100 to bunch. Cut

from clean, well-sprayed vineyard, largest in

Oklahoma, \$4.00 per 1000.

IDEAL FRUIT FARM, STILWELL, OKLA.

## MISCELLANEOUS

## QUALITY STOCK

Perennials, Shrubs, Trees, Hibiscus Mal-  
lows, Liriope, 60 leading varieties of Hemer-  
ocallis, and lining-out stock. Write for new  
wholesale listing today. Liberal count, high  
quality, careful grading.

RIEDEL PLANT CO. NURSERY

Experiment, Ga.

Small Ads Do Great Things in the  
American Nurseryman Classified Section.

## WANTED

## WANTED—LINING-OUT STOCK

50 Cladrastis lutea 25 Nordman Fir  
25 American Beech 200 Cornus alba  
100 Prunus pissardi 100 Iboia Privet  
25 Oriental Spruce 100 Smokebush  
25 Syringa japonica 500 Coral-berry  
500 Cydonia japonica 100 Persian Lilac  
50 Tsuga diversifolia 50 Horse-Chestnut  
50 Euonymus alatus 25 Aralia spinosa  
25 Viburnum Carles 50 Morus alba  
25 Swiss Stone Pine 200 Cornus lutea  
100 Aralia pentaphylla 250 Hugonia lilac  
250 Caragana arborea 250 Snowberry  
250 Rhamnus cathartica 50 Cericidiphyllum  
10 Allanthus glandulosa 50 Philodendron

SUDBURY NURSERIES, INC.

South Sudbury, Mass.

## WANTED — IMMEDIATE QUOTATIONS

on the following:

200 PYRACANTHA formosana, 4 to 8 ft.

25 MAGNOLIA grandiflora, 4-in. caliper

25 AZALEA Hinodegirl, 2-ft. spread

95 AZALEA Coral Bella, 2-ft. spread

261 AZALEA Snow, 2-ft. spread

37 AMERICAN Elm, 4-in. caliper

Write or phone

LIBERTY NURSERIES

Rt. 1, Box 61 Phone 3-0653 Greenville, S. C.

## WANTED

Black Hills, Norway and Colorado Spruce;

Austrian, Red, White Pine and Douglas Fir,

5 to 6 ft., 6 to 8 ft. up.

Send price and quantity to

ARROWHEAD NURSERY

46 S. Central Clayton 5, Mo.

## SUPPLIES AND SERVICES

## BIRD FEEDERS

## BIRD FEEDERS

Wild bird feeders and houses are big busi-  
ness. If located in a suburban or rural area,  
you can share BIG profits. Generous discounts,  
fast turnover and many repeat sales.

Write on your letterhead for Catalog HN.

McHUTCHISON & CO.

95 Chambers St. 311 S. E. Belmont

New York 7, N. Y. Portland, Ore.

BIRD FEEDERS OF CALIF. REDWOOD,  
natural finish, 7x8 ins., glass front, hinged  
roof for easy filling. Order in units: 6 for  
\$8.70; 12 for \$16.50. We can supply wild bird  
seed, 25 lbs. for \$4.95. Express collect. Sam-  
ples, \$2.50, prepaid.

BIRCHWOOD GARDENS

Box 24 Phone 5737 Lowell, Mich.

## FERTILIZERS

## SOLUBLE FERTILIZERS

PETERS SPECIAL, 20-20-20, general purpose

fertilizer.

PETERS SPECIAL, 21-7-7, azalea special,

chelated iron.

\$6.00 per 25-lb. bag, \$2.00 per 100 lbs.

F.O.B. Allentown, Pa.

ROBERT B. PETERS CO.

739 N. 7th St. Allentown, Pa.

## FLATS

## REDWOOD FLATS, K. D.

Finest stock obtainable. Guaranteed all  
clear heart. Size 20x15x3 ins. inside measure,  
\$42.00 per 100.

1x1-in. Cypress stakes, pointed.

50 pcs. to bundle, 4 ft., \$3.50 per bdl.

50 pcs. to bundle, 5 ft., \$4.50 per bdl.

50 pcs. to bundle, 6 ft., \$5.50 per bdl.

Ship same day. Cash with order, please.

YOHO & HOOKER, Youngstown 2, Ohio

## MINNESOTA WHITE CEDAR FLATS

Order by No. Wt. Price

No. 1, 14x20x2 3/4 320 \$25.00

No. 2, 14x20x3 400 29.00

No. 3, 12x16x2 260 19.00

No. 4, 12x16x3 275 22.50

No. 5, 14x16x3 275 21.50

No. 6, 14x16x3 290 25.50

No. 7, 16x22x3 380 28.50

No. 8, 16x22x3 425 33.00

No. 9, 11 1/2 x 22 x 3 320 23.00

No. 10, 11 1/2 x 22 x 3 400 28.75

No. 11, 14x16x5 450 30.00

No. 12, 5x11x5 160 16.00

No. 13, 5x16x5 215 18.50

Plant boxes, 5x8 1/2 x 2 45 5.00

All other sizes quoted on request.

"One Time" flats of aspen, 76 per cent of

above prices.

5 per cent discount on orders of 1000 or

more.

The above measurements are inside. Bot-

tom and sides of cedar flats are 3/4-in. thick;

ends are 1/2-in. Plant boxes are thinner.

"One Time" flats are 5/16-in. sides and bot-

tom; ends 1/2-in. All material surfaced on

one side.

Your name and address printed up to 3

lines in black ink, on one or both end pieces

at the following rates: Set-up charge, \$1.00,

plus 1/2 c per piece for the first 1000 ends; 1/4 c

per end thereafter. Shipped knocked-down in

units of 25.

All shipments by truck unless otherwise

ordered. F.O.B. Cook, Minn., Attach check.

H. C. HILL & SONS, Cook, Minn.

## Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

## FLATS

Made from a good grade of southern Yel-  
low Pine dipped in Rot Not wood preserver  
for longer life.

Standard specifications, inside measurements.

16 x12x3 ..... \$20.38 per 100

16 x14x3 ..... 27.06 per 100

20 x14x3 ..... 31.07 per 100

22 1/2 x15x3 ..... 30.49 per 100

22 1/2 x15x3 ..... 36.35 per 100

All other sizes quoted on request. Prices

F.O.B. Birmingham, Ala. We are manufac-

turers, not jobbers. Our quality guaranteed.

Prompt shipment on any quantity. Mixed

shipments of Flats, Plant Boxes and Spray

Boards. Write for our price list on these

items. Attach check to order.

HIGHTOWER BOX & TANK CO.

P. O. Box 1449

Birmingham 1, Ala.

## LABELS

SPECIAL LOW PRICES ON LABELS  
FOR JANUARY ONLY. 3/4x3 1/2-in. wired  
labels in blue, green, red, yellow, \$16.00 per  
1000, \$9.00 per 500, \$4.80 per 250, \$2.25 per  
100.

Same labels, but in white only, \$15.00 per

1000, \$8.00 per 500, \$4.50 per 250, \$2.00 per

100.

3/4x4 1/2-in. ORCHID SPECIAL: Red, green,

yellow, white, \$15.00 per 1000, \$8.50 per 500,

\$4.50 per 250, \$2.00 per 100.

Dimite for red spiders and ants, 2 oz., 69c;

8 oz., \$1.89.

DETEX, a safe DDT, \$3.50 per qt., \$11.00

per gal.

PRICED f.o.b., subject to change without

notice.

WRIGHTWOOD FLORAL CO., INC.

2407 N. Main St., Houston 3, Tex.

## DAHLIA OR TREE LABELS

|  | Price per 1000 | Plain Painted |
|--|----------------|---------------|
| 3 1/2 x 5/8 ins., notched (not wired)..... | \$2.50         | \$3.00        |
| 3 1/2 x 5/8 ins., wired (copper).....      | 3.30           | 4.10          |

## POT LABELS

|                                    |      |      |
|------------------------------------|------|------|
| 4x 5/8 ins. (cartons 1000 each)... | 2.90 | 3.40 |
| 5x 5/8 ins. (cartons 1000 each)... | 3.10 | 3.70 |
| 6x 5/8 ins. (cartons 1000 each)... | 3.40 | 4.15 |
| 8x 5/8 ins. (cartons 500 each)...  | 5.00 | 6.20 |
| 10x 5/8 ins. (cartons 500 each)... | 6.00 | 7.30 |

## GARDEN STAKES

|                                      | Price per carton |      |
|--------------------------------------|------------------|------|
| 8x 3/4 ins. (cartons 250 each)...    | 1.85             | 2.15 |
| 10x 3/4 ins. (cartons 250 each)...   | 2.10             | 2.40 |
| 12x 1 1/4 ins. (cartons 100 each)... | 1.40             | 1.60 |

## EVERMARK PENCILS

The original label marker. 1 doz. 7-in. pencils per box, \$1.25.

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

"We ship the same day."

YOH & HOOKER

Youngstown 2, O.

## MUSHROOM SUPPLIES

## MAGIC MUSHROOM TRAYS

The easy way to grow mushrooms, everything complete with instructions. Will yield from 2 to 4 months. Expresed, 2 trays, \$3.25; 6, \$9.00.

MELLINGER'S INC., North Lima, O.

## PEAT

## HOLLAND PEAT MOSS

Genuine BRODLEAF quality.

Bale, \$3.65; 10 large bales, \$30.00.

## Priced F.O.B.

WRIGHTWOOD FLORAL CO., INC.

2407 N. Main St. Houston 9, Tex.

## SPHAGNUM MOSS

## NO. 1 SPHAGNUM MOSS

Clean, long-fibered, standard bales; freight, express, or delivered by our trucks. Please price us before you buy. Satisfaction guaranteed.

WARRENS MOSS CO., Warrens, Wis.

## STAKES

## BAMBOO CANE STAKES

Dyed green, pencil thickness.

Packed 2000 per bale.

|                        | Per 1000 | Per bale |
|------------------------|----------|----------|
| 1 1/2 ft. ....         | \$3.50   | \$6.00   |
| 2 ft. ....             | 4.50     | 8.00     |
| 2 1/2 ft. ....         | 5.50     | 10.00    |
| 3 ft. ....             | 7.00     | 13.00    |
| 3 1/2 ft. ....         | 8.50     | 16.00    |
| 4 ft. ....             | 9.50     | 18.00    |
| 5 ft. ....             | 12.50    | 24.00    |
| 6 ft. per bale of 500. | \$10.00. |          |

## SPLIT BAMBOO, DYED GREEN

|              | Per 1000 | Per bale (5000) |
|--------------|----------|-----------------|
| 12 ins. .... | \$2.50   | \$10.00         |
| 15 ins. .... | 3.50     | 15.00           |
| 18 ins. .... | 4.50     | 20.00           |
| 24 ins. .... | 5.50     | 25.00           |

## F.O.B. CHICAGO

Quantity discounts: 10 bales up, less 5 per cent; 25 bales up, less 10 per cent.

## ALEC HENDERSON INC.

1305 W. Randolph St. Chicago 7, Ill.

## STAKES—HARDWOOD

CUPREX TREATED. BEAUTIFUL GREEN.

## LAST A LIFETIME.

| HEIGHT AND WIDTH              | Per 100 | Per 1000 |
|-------------------------------|---------|----------|
| 2 ft., 1/2-in. x 1/2-in. .... | \$2.50  | \$23.50  |
| 3 ft., 1/2-in. x 1/2-in. .... | 3.25    | 31.00    |
| 4 ft., 1/2-in. x 1/2-in. .... | 4.75    | 45.00    |
| 5 ft., 1/2-in. x 1/2-in. .... | 5.95    | 57.50    |
| 4 ft., 1-in. x 1-in. ....     | 7.95    | 75.00    |

(Not treated.)  
8 ft., 1-in. x 1-in. (not treated)..... 12.95 120.00  
Due to the severe drought, we are overstocked on these fine stakes. Your chance of a lifetime. Guaranteed to be the best stakes you have ever used. Ideal for nursery or florist. FIRST COME—FIRST SERVED, while they last. Cash with order, please.

## WOLFE NURSERY

Box 811-S Stephenville, Tex.

## CYPRESS PLANT STAKES

50 Pieces to Bundle.

|                             |                   |
|-----------------------------|-------------------|
| 1x1-in.—3 ft., pointed..... | \$3.00 per bundle |
| 1x1-in.—4 ft., pointed..... | 3.50 per bundle   |
| 1x1-in.—5 ft., pointed..... | 4.50 per bundle   |
| 1x1-in.—6 ft., pointed..... | 5.50 per bundle   |
| 1x1-in.—7 ft., pointed..... | 7.00 per bundle   |

These stakes are made of cypress and redwood, are good, strong stakes and will give long service. "A little better than seems necessary."

## WE SHIP SAME DAY!

## YOH &amp; HOOKER

Youngstown, O.

## HEAVY BAMBOO STAKES

| Per 100    | 1/2 to 3/4 in. % to 3/4 in. % to 1 in. |        |
|------------|--|--------|
| 4 ft. .... | \$2.88                                 | \$3.44 |
| 5 ft. .... | 3.60                                   | 4.30   |
| 6 ft. .... | 4.32                                   | 5.16   |
| 7 ft. .... | 5.04                                   | 6.02   |
| 8 ft. .... | 5.76                                   | 6.88   |

2000 up, less 5%; 5000 up, less 10%.

A. C. PATTERSON, Centertown, Ky.

## STAKES, GALVANIZED HARD STEEL.

Galvanized Wire.

Prices and samples sent upon request.

SCHUPP SUPPLY CO., Wilmette, Ill.

## ARIZONA SHORT COURSE

[Continued from page 10]

tablishing high-quality lawns in shorter periods of time.

"Diseases of Trees" was effectively presented in color projections by Dr. Ivan Shields, extension plant pathologist, University of Arizona. It was emphasized that prevention in connection with tree diseases is much more important than control measures. The symptoms and recognition of pathogenic diseases were effectively portrayed. There was also emphasized the importance of recognizing some of the physiological diseases traceable to excesses or deficiencies of various materials applied to trees and shrubs used in landscaping.

The use of Malathion as a general purpose insecticide was highly recommended by Dr. George Butler, Jr., entomology staff, University of Arizona. This material is relatively safe from the standpoint of humans. It has a high insect toxicity and is effective in controlling aphids, mites and red spiders, which commonly occur on trees and shrubs in Arizona.

A field trip was made to the Jackson & Perkins Co. growing grounds, recently established 10 miles north of Phoenix. Clarence Perkins, of the firm, came from California to conduct the tour of the rose-growing ranch. There are 1,600 acres in the recently acquired property for the growing of roses for the nursery and greenhouse trades. Two years ago, Mr. Perkins investigated central Arizona as a possible growing site. The area chosen has proved to be well adapted; healthy rose plants are developed in one year from cuttings and buds for distribution to nurserymen and greenhouse rose growers throughout the nation. Nurserymen taking the tour observed more than 400 acres now planted for the production of rose plants. Highlighting the tour was the demonstration of mechanized operations. Nurserymen noted the effective use of appropriate mulch paper as adapted by Mr. Perkins to commercial rose growing. The mulch is used particularly for weed control and the improvement of moisture conditions for growing the plants.

At a business session the Arizona Association of Nurserymen elected Verne Owen, Owen Nursery & Landscape Service, Tucson, president for 1955. At the Arizona banquet the American Association of Nurserymen presented industrial landscaping awards to the Carnation Co., Phoenix, and to William Norman, who did the landscaping for the company.

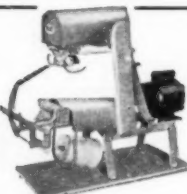


## For EFFICIENT POWER . . . for EVERY SPRAYING NEED CHAMPION Presents the New "600" POWER SPRAYER

Here's the new power sprayer for all-around use. Mounted on a sturdy chassis for easy mobility, it is powered by an electric motor for inside use, by a 1 1/2 H.P. air-cooled engine for outdoor use. An exclusive Champion feature of proved performance is the vertical single-cylinder pump. Its dome-shaped air chamber assures a steady pressure of up to 350 lbs., delivering 3 gallons per minute. The "600" is designed for accessibility, easy lubrication and maintenance. Write today for literature.

## CHAMPION SPRAYER CO.

Mfrs. Portable Sprayers and Dusters  
6507 HEINTZ AVE. • DETROIT 11, MICH.



## FELINS ELECTRIC TYER ROTARY OR RACK TYPE

Sturdy construction, smooth action, for tiring all varieties of nursery stock, cut flowers and bunch vegetables at a great saving of time, money, twine.

## FELINS TYING MACHINE CO.

3351 N. 35th St.  
Milwaukee 16, Wis.



## ULLMAN CLEAT

Strong, reliable, protects flowers from damage in transit, satisfies customers and insures better prices. The Ullman cleat grips sides of box, holds stems to bottom. Send for prices.

THE ULLMAN CO.  
Northampton, Mass.

## FERTO-POTS

MILLIONS USED  
PLANT EATS POT

|   | Per ton C.I. |
|---|--------------|
| FERTO-GERM, Compost, Manure.....        | \$48.00      |
| MULCHNUR, 3-5-3 All Organic.....        | 60.00        |
| BONE MEAL RAW IMT.....                  | 60.00        |
| GARBAGE TANKAGE, 3 1/2 per cent Am..... | 18.00        |
| SE-BO-PHOS, 20 per cent T.P. Acid.....  | 18.00        |
| FEATHER TANKAGE, 17 per cent Am.....    | 130.00       |

Write for Price List, Small Quantities.

ALLEN CO., PITTSBURY 3, N. J.

## Pronouncing Dictionary

of Plant Names and Botanical Terms

64 pages, 3000 names, 25¢ per copy

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.

**WANTED and FOR SALE ADS**

Help and Situation Wanted and For Sale Advertisements.

**Display: \$4.00** per inch, each insertion.**Lines: 35c** line; minimum order **\$3.50**.**FOR SALE****PEAT BOG**

Actively producing peat bog, packaging peat and potting soil. Extremely modern home; excavating, shredding, mixing and packaging equipment; warehouse inventory; truck; office equipment; all contacts and accounts included at \$25,000. Only \$5,000 down. Present owner retiring.

**WHIPP FARM AGENCY**

1710 E. Michigan Ave.  
Lansing, Mich.

**HELP WANTED****SALES AGENTS**

Important Dutch firm of growers and exporters of a general line of better nursery stock has vacancies in many parts of the country for selling agents working on commission who have connections among nurserymen, sales stations, etc. Apply Box 137, care of American Nurseryman.

**FOR SALE**

The southwest's finest tree mover. All hydraulic. Fast, safe and simple. Capacity 13,000 lbs., 7½-ft. ball. Mounted on 1948 International truck, flat stake bed for double use. Also Ford tractor back hoe attachment for digging trees and holes. Complete \$3500.00.

**HILL'S NURSERY**  
P. O. Box 43  
Victoria, Tex.

**SITUATION WANTED**

Landscape architect desires location in area where opportunities are unlimited. Qualified in all phases of landscaping. Also extensive experience in agriculture and horticulture field, B.S. degree. Age 40. Write Box 131, care of American Nurseryman.

**SITUATION WANTED**

Position wanted by experienced salesman who is familiar with all phases of nursery business, retail, mail order and wholesale. Can furnish the best of references for this type of business. Address Box 138, care of American Nurseryman.

**FOR SALE**—Equity in largest and fastest-growing combined garden center and florists' shop in upstate New York. Doing now approximately \$150,000 annually and growing rapidly. To a man with considerable experience in this type of business. For details, address Box 129, care of American Nurseryman.

**FOR SALE**—Nursery. Complete. Doing A-1. On busiest street in center of 500,000 area. Frost free, 7-room home. \$31,500. Owner. 4821 University Ave., San Diego 5, Calif.

**HELP WANTED**—Salesmen to sell national line garden hose and garden accessories. Write, stating experience, etc. Address replies to Box 134, care of American Nurseryman.

**HELP WANTED****LANDSCAPE CREW FOREMAN**

Preferably 20 to 35 years old, married and free of armed service obligation. Must have ability and responsibility to direct other men, ability to follow plans and sketches, knowledge of plant materials and plant requirements and enthusiasm for high-grade landscape work. Location is east coast, high-income community. When replying, state age, marital status, armed forces status, experience and education. Give references, earliest date available and enclose recent picture. Address Box 127, care of American Nurseryman.

**HELP WANTED****Landscape Salesman**

For full-time employment with modern nursery landscape business in east coast community with excellent opportunities. Must have own car and training in plant materials from reputable landscape school or practical experience with same. Must have training in or experience with principles of landscape design. Apply by letter stating age, training, experience, references and enclosing picture. State earliest date available. Write Box 127, care of American Nurseryman.

**HELP WANTED**

Salesman wanted part time or full time for a job with a future. Selling plants, bulbs and supplies to florists, seed companies, nurseries and other dealers.

**NURSERYMEN'S EXCHANGE**  
938 Howard St.  
San Francisco, Calif.

**HELP WANTED**

Manufacturers agent wanted to sell nationally advertised equipment to the florist and nursery trade. An excellent opportunity for an experienced man now calling on this field. Give present lines, territory covered and experience in your reply. Address Box 135, care of American Nurseryman.

**HELP WANTED**

Experienced young man for retail nursery business, landscaping, and general nursery work in the midwest. Opportunity for future for right party. Write giving age, qualifications, family and enclose photo. Address replies to Box 133, care of American Nurseryman.

**WANTED**

Distributor wants to carry nonperishable garden side lines for stores, florists and nurserymen. Grand Rapids and western Michigan territory. Write Box 136, care of American Nurseryman.

**WANTED TO BUY**

Landscape-nursery business or garden center located near Philadelphia, Pa.

**H. WILENSKY**  
407 Cramer Ave.  
Beverly, N. J.

**HELP WANTED****LANDSCAPE SALESMAN**

One of the oldest and most aggressive nurseries in Minneapolis has a position open for a man who is capable to handle landscape calls and make direct customer contacts. Must be experienced in selling, sketching and have car. Good permanent position to right man. State full qualifications and approximate earnings expected with photograph in first letter.

Also need experienced garden store salesman.

**HALLA NURSERY**

4917 Eden Ave.  
Minneapolis 10, Minn.

**HELP WANTED****EXPERIENCED SALESMAN**

To call on trade for large mid-western wholesale nursery selling complete assortment to established list of customers. Permanent position and good opportunity for man who can sell and is willing to work. Give full information regarding self when applying. Write to Box 118, care of American Nurseryman.

**HELP WANTED****EXPERIENCED NURSERYMAN**

Capable of maintaining and operating a 12-acre nursery. Must have knowledge of plant material, insects and have good working habits. Wonderful opportunity, good salary and year-round job to right man. 3-bedroom, modern, furnished house on premises. Job must be filled by April 1. Please state past experience, salary expected and enclose snapshot in first letter.

**HALLA NURSERY**

4917 Eden Ave.  
Minneapolis 10, Minn.

**HELP WANTED****Garden Store Manager**

An aggressive experienced merchant with substantial plant knowledge for new branch store with one of Ohio's best nursery organizations in one of Ohio's largest cities. Must be capable of taking complete charge, be married and between 25 and 40. Good base salary plus overwork on all sales. Send complete resume. Write to Box 132, care of American Nurseryman.

**HELP WANTED**

Experienced, middle-aged landscape gardener needed for small nursery in Pennsylvania. Good working conditions. Position open April 1. Write stating experience and salary expected. Address Box 128, care of American Nurseryman.



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For Self-Merchandising



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WEED KILLERS, HOUSEHOLD SPRAY

## Colorful, Tell-All Labels

Invite Home Gardeners to Help Themselves

The Niagara line of packaged insecticides and fungicides is a "natural" for self-service stores. Every attractive label shows at a glance what the contents are for and clearly states how, when and where to use. Home gardeners can and will shop from the shelves. You'll make easy money just stocking and displaying the complete Niagara line. Normal store traffic will do the rest. Write for price list today.

## Niagara CHEMICAL DIVISION

FOOD MACHINERY AND CHEMICAL CORPORATION

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Please Mention AMERICAN NURSERYMAN When Writing Advertisers.

## Actionized...for speedier more efficient SOIL SHREDDING!

ONLY LINDIG shredders pass all soil through exclusive patented shredding blades...guaranteed perfect shredding of all material...soil, compost, peat, sphagnum moss, etc. Screening Attachment removes rocks and other unwanted particles. From \$95.00.



POSITIVE SHREDDING BLADES!

LINDIG MFG. CO., INC.

1875 W. County Road C—St. Paul 13, Minn.



## Plant Patents

The following plant patents were issued recently, according to Rummeler, Rummeler & Snow, Chicago patent lawyers:

No. 1315. Rose plant. Robert G. Jelly, Richmond, Ind., assignor to E. G. Hill Co., Richmond, Ind. A new and distinct variety of rose plant of the hybrid polyantha class, characterized particularly as to novelty by its vigorous, free and upright habit of growth; by its clean and relatively large buds of distinctive color; by its attractive foliage; by the excellent keeping quality of its flowers when cut from the bush, and by its excellent response to pinching for commercial production of cut flowers in greenhouses.

No. 1316. Rose plant. Robert G. Jelly, Richmond, Ind., assignor to E. G. Hill Co., Richmond, Ind. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by its erect habit of growth; by its relatively large, pointed, perfectly shaped buds which open into high-centered and well-formed flowers of a distinctive pink general color tonality; by the superior keeping quality of its blooms, and by its suitability for forcing under commercial greenhouse conditions.

No. 1317. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the general similarity of color of its blooms to those of its parent variety Ballet, combined with a more vigorous and healthier habit of growth of its plant and foliage, more freedom of growth, especially under greenhouse conditions, and better resistance to disease and fumigant injury.

No. 1318. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the large-flowered polyantha class, characterized particularly as to novelty by the general similarity of the color, form and lasting quality of its blooms to those of its parent variety Garnette, but its blooms being larger in size than those of Garnette.

No. 1319. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the large-flowered polyantha class, characterized particularly as to novelty by its dwarf habit of growth; by the relatively large size of its buds and flowers, which compensate for its dwarf habit of growth; by the distinctive carmine general color tonality, which is unique in dwarf floribunda roses, and by the distinctive ring of white color, which extends above the aiglet into the petals of the flowers and gives the effect of a white circle in the center of each flower.

No. 1320. Rose plant. Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of rose plant of the large-flowered polyantha class, characterized particularly as to novelty by its habit of producing many large, flat clusters of relatively large flowers, having a pale yellow-orange tonality, lightly overcast with Thulite-pink

color, with prominent stamens of lemon-chrome color; by its rapid production of new clusters of flowers; by the long-lasting quality of the flowers, especially when exposed to the hot sun, and by the fruity fragrance of its flowers.

No. 1321. Peach tree. C. Thomason, Bangor, Ala., assignor to Stark Bros. Nurseries & Orchards Co., Louisiana, Mo. A new and distinct variety of peach tree of the yellow-fleshed, freestone class, characterized particularly as to novelty by the late ripening habit of its fruit, by the slow softening habit of its fruit after harvest and by the excellent flavor and high quality of the fruit.

No. 1322. Pyracantha plant. Owen H. Varden, East Rutherford, N. J., assignor to Bobbink Nurseries, Inc., East Rutherford. A new and distinct variety of pyracantha plant of the hybrid coccinea class, characterized particularly as to novelty by the abundance and the scarlet-red general color tonality of its fruit, by its compact and rich dark green foliage and by its hardness.

No. 1323. Rose plant. T. E. Motose, Fairport, N. Y. A new and distinct variety of hybrid tea rose plant, characterized as to novelty and usefulness by the combination of its thornless branches, smooth bark and rose-pink blooms, with frequent appearance of delicate dentations and ruffle-like edges on the petals; its great production of blooms under greenhouse culture; its tendency to produce a great number of blooms of the type known as one to a stem and particularly suitable for cut flower trade, and its recurrent or continuous blooming ability or habit in direct and in filtered sunlight, together with its foliage characteristics.

No. 1324. Nectarine tree. F. W. Anderson, Merced, Calif. A new and distinct variety of nectarine tree, characterized, as compared with the Stanwick nectarine, by freestone fruit that is yellow instead of white fleshed, approximately 50 per cent larger in size, with more exterior red color of better keeping and shipping qualities and having substantially the same ripening period, which is approximately two weeks later than the Freedom nectarine, and further characterized by fruit having strong stems, which hold fruit well on the tree when ripe.

No. 1325. Azalea plant. Aart Vuyk, Boskoop, Netherlands, assignor to Vuyk Van Nes, Boskoop. A new and distinct variety of azalea plant of the hardy evergreen type, characterized particularly as to novelty by its winter hardness; by its abundance of large, glossy, heavy leaves that are deep green in summer and have a reddish-green tint in fall and winter and remain on the plant during winter; by its abundant production of erect flowers of brilliant rosy-red general color tonality, and by the absence of fading of the flower color.

No. 1326. Nectarine tree. Frederic W. Anderson, Merced, Calif. A new and distinct variety of nectarine tree, characterized, in comparison to the John Rivers nectarine, by freestone fruit having a larger size; by yellow flesh instead of white; firmer flesh, and more colorful exterior fruit color, but having substantially the same harvest period.

No. 1327. Nectarine tree. Frederic W. Anderson, Merced, Calif. A new and distinct variety of nectarine tree, characterized, as compared to the John Rivers

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—the first choice  
of nurserymen!

**N**URSERYMEN all over the country are using Premier Peat Moss all year—because Premier is the *big value* for mulching, transplanting, seedbeds and lining out, as well as soil improvement. Premier absorbs as much as 20 times its weight in moisture . . . holds water, air and nutrients around the roots . . . makes all soils loose and

friable . . . speeds germination and strengthens growth. And it supplies the *organic* material that is essential for maximum productivity. You'll profit from Premier—using it and *selling* it. Display those colorful, eye-catching Premier Packages! Every bale, bag and carton gives *big value*—builds *resales*! Write today for prices.

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## PREMIER Peat Moss

*The Natural Organic  
Soil Conditioner*



Small Packages

Plastic Bale  
Poly-laminated  
inside and outside

### DOES YOUR SOIL HAVE LIFE and ENERGY?

Without the balance and dynamic energy of bacteria, biotics, hormones, enzymes, vitamins and trace minerals, your soil may be poorly productive and your plants more subject to disease no matter how many chemicals you use.

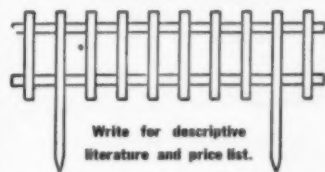
All-organic **ActivO** supplies these vital forces of Nature at low cost. Just mix it with mulches, fertilizers, seed — or directly into soil. **TRY IT!** Money-back guarantee. \$5.95 size energizes 6500 lbs. of fertilizers, mulches, soils, etc.

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Write for descriptive  
literature and price list.

**NORRIS FENCE CO.**  
LUFKIN, TEX.

Manufacturers of woven picket lawn and flower border fences, Cape Cod sectional fences, and shading fences.

## SOILAIRE POWER ROLLERS



### ROLLPAC

Over 600 of these Rollpacs are used by leading Universities, Park Systems, Tennis Clubs, Landscape and Blacktop Contractors and Cemeteries.

Built entirely of steel, it has a variable weight of from 1100 to 2360 lbs. and will handle a wide variety of rolling jobs. A stand-out one-ton roller.

### ROLLCOR

A dependable small-size low-cost roller for lawns, playgrounds, baseball diamonds and similar work. All steel construction—Briggs & Stratton Engine—19" width—weighs 410 lbs. loaded. Just right for small lawns.

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PIQUA, OHIO

Knives - Shears - Pruning Tools  
Nursery Spades - Grafting Supplies  
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A simple, safe sterilizer for use in the bed, bench or potting soil. NO FUNGUS. NO WEEDS. NO SOIL INSECTS. NO SOW BUGS. NO SLUGS. NO FUNGUS. Edylene dibromide in capsule form. 1 package of 200 capsules, \$3.39. 1 case of 12 packages, \$37.90. Satisfaction guaranteed.

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REED MATS

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Write for Prices  
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122-A Chambers St., New York 7, N. Y.

and Gower nectarines, by freestone fruit which is yellow instead of white-fleshed; by averaging approximately 50 per cent larger and ripening in a period between the harvest thereof; by better keeping and shipping qualities than said John Rivers nectarine and comparable to the Gower nectarine; and additionally characterized, as compared to the Gold Nugget and Sun Grand nectarines, by a ripening period of approximately a week later and a week earlier, respectively, than the harvest of the same; by averaging approximately 25 per cent larger than the fruit of the Gold Nugget nectarine and slightly larger than the Sun Grand nectarine, and further characterized by stout stems which adhere well to the stone.

No. 1328. Camellia plant. Maude P. Bristow, Norfolk, Va., assignor to Gulf Stream Products, Inc., Wachapreague. A new and distinct variety of camellia plant of the sasanqua or fall-blooming type, characterized particularly as to novelty by the semidouble form, large size and distinctive pink general color tonality of its flowers and by the habit of its flowers in partly closing at night, with consequent improved protection and superior lasting quality on the plant.

No. 1329. Peach tree. Charles Thomson, Bangor, Ala., assignor to Stark Bros. Nurseries & Orchards Co., Louisiana, Mo. A new and distinct variety of peach tree of the yellow-fleshed, freestone type, characterized particularly as to novelty by the relatively early-ripening and slow-softening habits of its fruit, by the superior handling and shipping qualities of its fruit and by its superior disease resistance.

No. 1330. Red verbena plant. Florence C. Chandler, Ardsley, N. Y., assignor to Boyce Thompson Institute for Plant Research, Inc., Yonkers, N. Y. A new and distinct variety of spectrum-red verbena plant, characterized by large, bright red individual flowers in large clusters of many flowers borne on long, erect stems; by large, thick, dark green leaves which retain their color through the summer, and by good vigor.

No. 1331. Rose verbena plant. Florence C. Chandler, assignor to Boyce Thompson Institute for Plant Research, Inc. A new and distinct variety of rose verbena plant, characterized by exceedingly large individual flowers with the corolla nearly Eugenia red, with lighter areas toward the begonia-rose center, in large clusters of many flowers, borne on stiff, erect and long stems.

No. 1332. Rose-red verbena plant. Florence C. Chandler, assignor to Boyce Thompson Institute for Plant Research, Inc. A new and distinct variety of rose-red verbena plant, characterized by exceedingly large individual flowers of bright rose-red color, in large clusters of many flowers borne on stiff, long stems; by large, thick and medium leaves, and by good vigor.

No. 1333. Purple verbena plant. Florence C. Chandler, assignor to Boyce Thompson Institute for Plant Research, Inc. A new and distinct variety of purple verbena plant, characterized by large individual flowers that are uniformly purple, in large clusters of many flowers borne on stiff, erect and long stems; by large, deep green leaves, and by good vigor.

No. 1334. Magenta verbena plant. Florence C. Chandler, assignor to Boyce Thompson Institute for Plant Research, Inc. A new and distinct variety of magenta verbena plant, characterized by



# you'll *Save* on hand labor with **CRAG** HERBICIDE-1

Trade-Mark

In this nursery *weeds never grew* on soil treated with CRAG Herbicide-1. They were killed as they sprouted. Labor for hand weeding was eliminated — a real saving.

CRAG Herbicide-1 is safe. It's harmless to foliage even if sprayed directly on plants. You can safely prevent weeds from growing close to plants as well as between the rows.

Use CRAG Herbicide-1 in your nursery — you'll avoid weeds and you'll find that your nursery stock brings you more profit than before.

Call your regular supplier today for your CRAG Herbicide-1.




This side untreated

This side treated with CRAG Herbicide-1.

## CARBIDE AND CARBON CHEMICALS COMPANY

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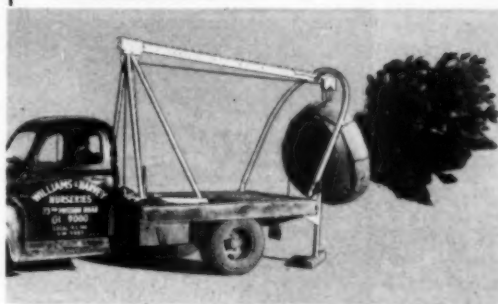
large individual magenta flowers in large clusters of many flowers borne on long, erect stems; by thick, large and dark green leaves; good vigor, and by profusion of bloom and strong fragrance.

No. 1335. Rose plant. Ralph S. Moore, Visalia, Calif. A new and distinct variety of miniature rose plant, characterized, in comparison with the seed parent Oakington Ruby, by flowers more double than those of said parent and by bicoloring, the petals being a deep rose on the top side and a lighter silver pink on the under side, the plant averaging 10 to 12 inches in height.

No. 1336. Rose plant. Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Co., Richmond. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the combination of its relatively large flowers of amber-yellow general color tonality, its upright, free and vigorous growth, its relatively stiff stems, its semiglossy foliage and its retention of the large size of its flowers in hot weather, when grown under glass.

No. 1337. Rose plant. Frank Spanbauer, Decatur, Ill. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the distinctive white color of its flowers, by its relatively long-pointed buds, by the relative hardness of the petals of its flowers and their consequent good shipping and keeping qualities, by its abundant and leathery foliage and the consequent good resistance thereof to mildew and blackspot, by the habit of its foliage in growing relatively close to the base of the flowers and the consequent absence of naked stems.

## NEW TREE MOVER



**Williams & Harvey Nurseries  
ANNOUNCE  
This New,  
Improved  
Big Tree  
Mover**

- New Lighter Weight
- Simpler to Operate
- Two Sizes, 6 Ft. and 7 Ft.
- Quickly Demountable
- New Lower Costs

This perfected new tree mover fits any standard truck. Ready now.

For specifications write at once.

Six-foot mover (as pictured) complete with power winch and all needed pickup parts, **\$1,575.00** F.O.B. Kansas City, Mo.



### WILLIAMS & HARVEY NURSERIES

P. O. Box 8822

Kansas City, Mo.

## Hold Adult Tree Care Course

While adult education courses have become popular in the school systems of many localities, the constantly wider variety of subjects offered including horticultural practices all the way from flower arranging to plant propagation and landscape planting, the first course offered on the care of trees is believed to have been that completed the past autumn at Maine Township high school, Des Plaines and Park Ridge, Ill.

The inception of the course resulted from a casual conversation between Einar J. Anderson, director of adult education at the high school, and Archibald Enoch Price, commercial arborist, Glenview, Ill. The course subjects offered in adult education programs vary from one section of the country to another, and even from one community to another, because of the different interests, standards and recreations of the local residents. New courses are constantly added; if registration or attendance falls below a minimum, the course is abandoned or dropped. Courses in 60 subjects were offered at Maine Township high school last autumn.

The course for which Mr. Price was engaged as an instructor was described as: "Care of Trees—This practical course in the care of trees, evergreens and shrubs includes identification of the more common types and discussions on choosing hardy varieties for this locality, spraying, trimming and feeding."

The class met every Monday evening, during which the instructor lectured, answered questions or led class discussion for two hours, interrupted by a 15-minute recess. The course was originally planned for six sessions, and the registration fee was \$4. When the course is repeated in the early months of 1955, it will be extended to eight nights and the registration fee will be \$5. The instructor receives a nightly fee for his service.

### Registration of 52

Registration in this course totaled 52, a quite gratifying number, the director reported. Of these, 32 were men and 20 women; five of them had some connection with the commercial field. One of them, Arnold Simonsen, son of Jacob Simonsen, Glenview nurseryman, was a ready aid to the instructor when questions were asked that pertained to nursery operations rather than tree care.

As Director Anderson stated, of-

fering the course was a test of the interest in it. Some courses announced are dropped because the minimum registration requirement of 12 is not met. While her husband lectured, Mrs. Price took a course in flower arranging, in which 24 persons were registered.

It seemed appropriate that this first course on tree care should be presented at this particular school, because the Maine board of education includes as its president a nurseryman, Arthur E. Schroeder, and a mover of big trees, Otto Damgaard, both of Des Plaines. The adult education courses at Maine Township high school, conducted on Monday and Thursday evenings, attracted over 2,000 registrations last autumn, the largest of any school in the Chicago suburban area.

After his initial experience, accompanied by some anxiety at the outset, Archibald Enoch Price is of the firm opinion that arborists in other localities might act as instructors in similar courses in their local high schools, with great benefit to the public and leading to a better under-

standing of and interest in proper tree care.

In presenting the course, Mr. Price used no illustrations and only a few diagrams on the blackboard in reference to pruning, bracing and feeding. He suggested books for class members to read. After the opening night, questions were invited, and they proved a help to the instructor and a stimulant to class interest.

For each evening session, notes were prepared for the lecture and material was gathered so that the reading of excerpts from authoritative sources relieved the burden of the instructor in lecturing for the entire two hours.

Such material included bulletins from state agricultural experiment stations and similar sources on such topics as pruning ornamental shrubs, tree feeding, scale insects, fruit sprays, tree diseases such as oak wilt and the elm diseases, suitable trees and evergreens for the locality, transplanting trees and shrubs, etc.

Having an extensive library of books and pamphlets relating to trees and their care, Mr. Price did not lack for material, and after preliminary trial as to presentation, he

**English Type  
RAIL and HURDLE  
FENCE**



**2, 3, 4 or 5 Rail.**  
Can be painted or allowed  
to age naturally without cost  
for upkeep. **SCREEN TYPE  
PICKET FENCE** shown in  
alternate issue.


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YOU SELL FENCE  
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**ALL TYPES**—From large Estates to  
Small Homesites.  
**FOR LONG LIFE**—Entire Fence—  
(both posts and rails) treated with  
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**PENTA PRESERVATIVE**

**WOOD PRODUCTS CO., Toledo, Ohio**

**REMEVE**

Quality budding, grafting and pruning  
knives and shears. Manufactured in Ger-  
many.



Ask for folder.

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HORTICULTURAL WHOLESALE**

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**ROTPROOF  
BURLAP**

- Will not harm plants or handlers.
- Not oily—odorless.
- Outlast untreated burlap 6 to 8 times.
- Colored green or red.

Send for samples today.

**AMERICAN-DUTCH TRADING CO., INC.**  
(Formerly American-Dutch Burlap Co.)  
P. O. Box 177      CRANSTON 10, R. I.

found the method interesting enough to the students that they desired the course extended. Articles from the American Nurseryman relating to the subjects mentioned above also provided material for quotation or reading. As the course proceeded, the questions and discussion in the class provided a guide as to topics to be discussed and their form of presentation.

### WESTERN PENNSYLVANIA

[Continued from page 8]

semination and its uses. The film was shown by Alan Mock, Mock Seed Co., who supplied a commentary on the film and answered a number of questions asked by the membership on the use of Merion bluegrass.

A second film, on the growing of roses, was prepared by the California Spray Chemical Corp. and presented by Robert Schmidt, a sales representative of the firm. The primary reason for showing this film was to acquaint the nurserymen with the fact that it is one of a series of films prepared by this company which are available to them. The films are designed primarily to be shown to garden clubs, civic organizations, etc.

Charles Gerber, research entomologist of California Spray Chemical Corp., presented a short talk on chemical control of soil-borne diseases.

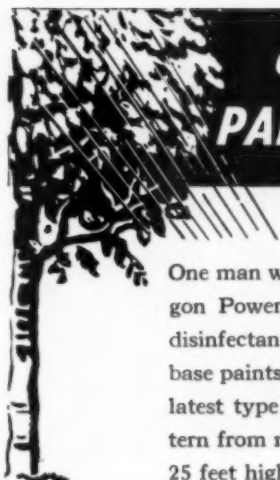
As the final event on the program, an entertaining film on the Florida everglades was shown.

DR. W. D. THOMAS, JR., formerly plant pathologist for the Colorado agricultural experiment station and city forester of Fort Collins, Colo., has joined the Arboriculture Service & Supply Co., Denver, Colo., as director of technical research.

BLACK'S NURSERY, El Paso, Tex., recently acquired four additional acres of land in the El Paso valley, where Charles E. Black, the owner, will specialize in growing the balm of Gilead poplar.

AFTER more than 50 years of service, the Lynbrook branch of Hart's Nurseries was closed December 31, 1954. All future business will continue from the firm at Route 25A, Wading river, L. I., N. Y.

DREWVILLE NURSERIES, Brewster, N. Y., a retail and landscaping firm, will officially open next spring and will specialize in rock garden and perennial plants, rhododendrons and azaleas.



## easier with new PARAGON Power Sprayer

One man with this compact (16½" wide) 12-gal. Paragon Power Sprayer can effectively spray insecticides, disinfectants, weed killers, herbicides, whitewash, water-base paints, silicone-type waterproofing solutions. With latest type spray gun, simple twist changes spray pattern from mist for wide coverage to small stream up to 25 feet high to reach high limbs, barn rafters or distant rows. Comes with 15 ft. hose.

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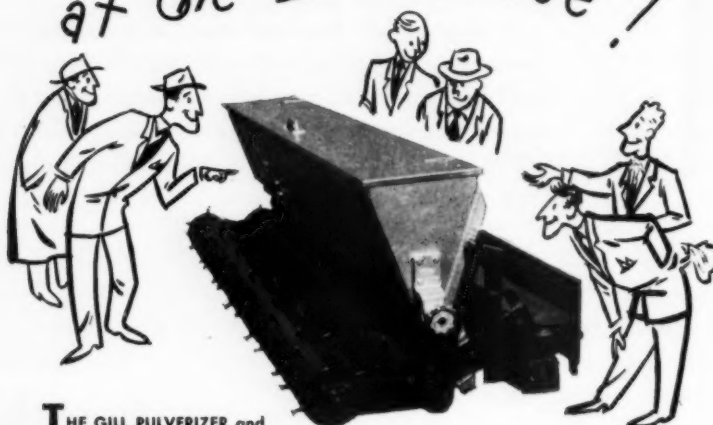
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## U.S.D.A. Bulletins

### SOIL FERTILITY

"Green Manure and Cover Crops for Irrigated Land" is a bulletin covering musts on new land in the Columbia basin, Washington. The manure and crops must be handled properly to return top benefits, which means that the right crops should be selected for individual conditions, fertilizer should be used if needed, legumes should be inoculated and seeds should be planted at the right time.

Published by the United States Department of Agriculture and the extension service of the State College of Washington, Pullman, bulletin 489 was written by K. J. Morrison, extension agronomy specialist; Frank G. Viets, Jr., agent agronomist at the Prosser, Wash., experiment station, and C. E. Nelson, agronomist at Prosser.

As a result of research in the Columbia basin area, alfalfa, hairy vetch, sweet clover, Austrian winter peas, winter cereals, Sudan grass and soybeans are the crops recommended in the 6-page bulletin.

### STORAGE BULLETIN

The essential storage requirements of many cut flowers, fresh fruits, vegetables and certain other horticultural crops that enter the market on a commercial scale are presented in a handbook recently published by the United States Department of Agriculture. Written by R. C. Wright, H. Rose and T. M. Whiteman, all of the biological sciences branch of the agricultural marketing service, the 77-page bulletin gives sources of detailed information on the handling and storage of some of the commodities discussed, available elsewhere in the form of bulletins or textbooks.

This bulletin, agriculture handbook No. 66, may be obtained for 30 cents by writing to the Superintendent of Documents, United States Government Printing Office, Washington 25, D. C.

J. A. ROWE, former mayor of Garden City, Ga., recently bought a farm of 93 acres in Effingham county to grow azaleas and camellias for the trade.

W. N. ADAIR has sold the Michigan Fruit Growers Nurseries, Benton Harbor, Mich. The new owners will operate the firm under the name of Michigan Nurseries, Inc.

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## PLANTINGS FOR SLOPES

[Continued from page 12]

two years. It is questionable whether other plants should be used with such active growers, particularly if no effort will be made to keep the ivy in check. Baltic ivy is one of the best, if not the best, form of English ivy for bank planting.

The purple-leaved euonymus, *Euonymus fortunei coloratus*, is attractive and desirable, with its purple-backed leaves in late summer, fall and winter, and it does well in the shade.

Another combination of evergreen plants for small banks, but in deep shade, is dwarf Hooker *sarcococca*, *Sarcococca hookeriana humilis*, and Japanese skimmia, *Skimmia japonica*. It is too expensive for some and too tender for others, but a good combination. Both plants are reasonably hardy on Long Island, if they are shaded and not completely exposed to strong winds. If one has ever seen the bright red berries of skimmia with the background of deep green of both plants, he will agree that it is a worthy combination. Small shaded nooks are also receptive to this pair.

Herbaceous ground covers, too, have their place on the shaded bank.

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The epimediums do well and deep shade presents no difficulty to such representatives as snowy epimedium, *Epimedium macranthum niveum*, and yellow epimedium, *Epimedium pinnatum sulphureum*. Moneywort, or creeping Jennie, *Lysimachia nummularia*, has also proved its ability to do an excellent job on shady banks.

### Plants for Sunny Spots

The list of plants for sunny banks is extensive, but there may be possibilities that some have not explored. Among the junipers the creeping juniper, *Juniperus horizontalis*, is well known for this type of planting, as are its many varieties. Certainly the low flat variety, Bar Harbor juniper, *J. horizontalis* Bar Harbor,

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should not be omitted, nor the Sargent juniper, *J. chinensis sargentii*, which is not so flat growing. There are two others not so well known but possibly superior in some respects. The shore juniper, *J. conferta*, has more distinct needles that are a light gray green. It appears more as a ground cover, and it is more difficult to single out individual plants. Another, by the name of jagged juniper, *Juniperus procumbens*, is not only a heavily branched and foliated plant, but it is also a flat grower. This juniper can take it and seems not to be so susceptible to red spider on Long Island.

The semievergreen memorial rose, *Rosa wichuraiana*, has long been a good cover of banks, as has Max Graf rose where the sun is available.

It is almost impossible to mention bank planting and not include the name of Hall's Japanese honeysuckle, *Lonicera japonica halliana*. Where other plants are not included in the same planting, this vine does a quick and good job, but of course the overly ambitious growth must be inhibited by the use of a sharp sickle.

### Plants for Either Sun or Shade

There are many herbaceous plants, not already mentioned, suited for bank planting in sun or partial shade. Included are crown vetch, *Coronilla varia*, and the sun rose, *Helianthemum*. For small areas, there are turfing daisy, *Matricaria tchihatchewi*; wineleaf cinquefoil, *Potentilla tridentata*; mother-of-thyme, *Thymus serpyllum*, and some of its varieties; grass or garden pink, *Dianthus plumarius*, and those ground covers that are found in the warmer climates, tick trefoil, *Meibomia cana*; strawberry geranium, *Saxifraga sarmientosa*, and wedelia, *Wedelia trilobata*, a worthy ground cover in central and southern Florida.

The heaths and heathers are also possibilities as are some of the native plants. Among the good wild ground covers are partridgeberry, *Mitchella repens*, and bearberry, *Arctostaphylos uva-ursi*, the latter of which is common in poor soils and on the sands near the seashore. Bunchberry is also a possibility, but not for the average landscape planner.

There are ways of making slopes and banks appear steeper, or less steep, than they actually are. If it is desirable to make the slope seem even more vertical, this can be accomplished by using taller plants near the top of the slope and the lower spreading types near the bottom portion of the grade. By placing

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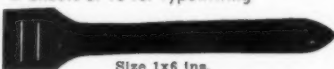
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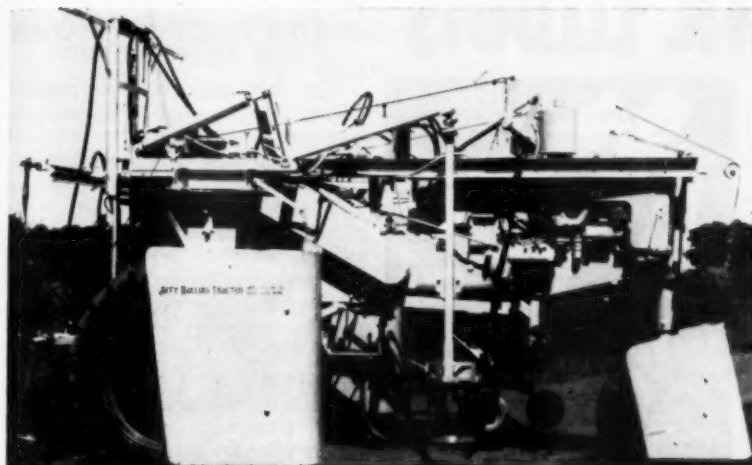
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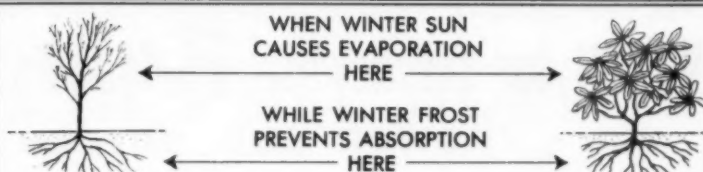
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the taller plants near the base of the slope and the lower plants in the upper portion of the grade, the reverse is accomplished.

Texture in bank planting is as important as it is in other phases of landscape development. When the slopes cover small areas, the leaves of the plants used should not be coarse or large. The relationship of scale should always be kept in mind. If the banks cover many square feet then the coarser-leaved plants may become a necessary consideration. These larger areas can include more variations in plant material, while the small areas must not be overly planted with too many different species and varieties, particularly when several foliage sizes are involved.

To add interest or provide a feature in a bank, it may be advisable to make a small dry stone or old brick wall part of the grade. If it is a long grade, the dry walls can even be repeated, but it is better to make the walls of varying sizes. Occasional use of a few short locust logs can also add interest to a slope.

Grades, slopes, banks or whatever one may call them are not problems that need to be treated as such, but are important parts of the landscape picture that become as interesting as one makes them.



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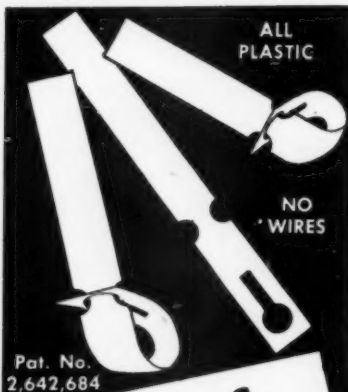
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## Tree Maintenance

By Noel Wysong

### BETTER CONTROLS NEEDED FOR LEAF MINERS

The last part of the summer usually brings a good many inquiries involving leaf miners, the group of insects that tunnel between the upper and lower surfaces of leaves. It is said that in the United States there are some 500 species of leaf miners, including representatives of the insect orders lepidoptera—butterflies and moths; diptera—true flies; hymenoptera—sawflies, ichneumons, chalcids, ants, wasps and bees, and coleoptera—beetles.

Various plants, including birch, holly, elm, oak, aspen and many others play the role of host to these insects. Leaf miner damage usually is easily noticeable, especially in late summer. Infested leaves present a blotched or streaked appearance that contrasts sharply with the dark green color of uninfested foliage. The streaking or blotching is caused by the feeding of the leaf miner; it eats the inner leaf cells, leaving only the colorless, tissue-thin surfaces. When viewed from a distance, the foliage of a heavily infested oak often has a muddy appearance, almost as if it had been sprayed with extremely muddy water. A single leaf may be infested with half a dozen or more leaf miners; in some cases each tunnel or blotched area is the work of a single larva, while with other species it is common to find several larvae in a single, large mined area.

When diagnosing a tree ailment, it is always good policy to show the client, if possible, the pest that is causing the trouble. In the case of leaf miners, this usually can be done easily. With the point of a sharp penknife, one of the leaf surfaces covering the tunneled area can be slit and lifted. At the edge of the mined area one or more tiny grubs, the larval form of the leaf miner, generally can be found feeding upon the green leaf tissues.

Specific control measures have been developed for some leaf miners. In the case of the holly leaf miner the recommendations include spraying with Dieldrin in the late spring to prevent infestation by killing the adults and applying Aldrin or Lindane 25 per cent emulsions at the rate of 2 quarts to 100 gallons of water later in the summer to kill the miners after they have begun tunneling in the leaves. Malathion

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and Lindane are reported to have given good control of the birch leaf miner when applied in the early spring as the leaves are approaching full development. Spray dosages suggested are 57 per cent Malathion emulsion or 25 per cent Lindane emulsion at concentrations of one half to one pint in 100 gallons of water.

Probably because leaf miners generally do not cause permanent injury to such trees as elm and oak, there is little if any up-to-date information available on control measures where these tree species are concerned. It seems probable, however, that the control principles which have proved successful on holly and birch—that is, an insecticide applied to kill the adults when they move to the leaves for egg-laying and a later spray applied to the leaves to kill the larvae in their tunnels—should be effective regardless of the species of plant involved. Killing the adults with one of the newer insecticides with residual toxicity, such as DDT or others in that group, should be largely a matter of timing the sprays to coincide with the egg-laying period. Whether or not Lindane or Aldrin would kill the larvae within the leaves of all plant species remains, in many cases at least, to be proved. Some research along this line, conducted by competent entomologists, would be heartily approved by most arborists.

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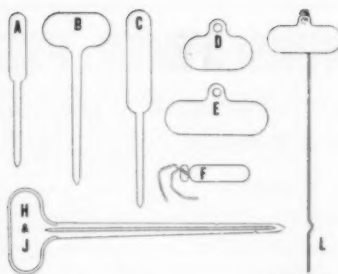
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## Book Reviews

### FEEDING GARDEN PLANTS

Since more attention to the soil and its fertility is being recommended to gardeners, they will find especially helpful such a book as "The Care and Feeding of Garden Plants," written by 14 specialists who are recognized as authorities in their respective fields. In process for three years, preparation of the book was directed by a committee of the American Society for Horticultural Science, by which the book was published jointly with the National Fertilizer Association, at \$3.

For the analysis of plant food deficiencies there is ready help in the 40 pages of illustrations in color and six in black and white. Further explanatory information on this phase of the subject matter appears in the text. Since most gardeners know little about plant hunger signs, this is a particularly valuable contribution by the book.

But the volume covers more thoroughly the garden cultivation of plants, from recommendations of species for garden planting to their general cultivation. Soil, feeding and fertilizers receive special emphasis.

After an opening chapter on how plants grow, by Daniel G. Aldrich, Jr., and H. G. Gauch, the various components of the home garden and their care and feeding are discussed by teams of authors, as follows: Lawn, by Fred V. Grau and Glenn W. Burton; shrubs, by N. W. Stuart and E. P. Christopher; trees, by Norman F. Childers and James M. Beattie; house plants, by Conrad B. Link and John G. Seeley; garden flowers, by R. Milton Carleton and Charles J. Gould; vegetables, by R. L. Carolus and O. A. Lorenz; small fruits, by James M. Beattie and Norman F. Childers.

### "YOUR FLORIDA GARDEN"

The advance of gardening has brought a need for books that carry information and advice to meet the particular climate and conditions under which plants are grown in different parts of our country. Most authoritative works have been general in character or written primarily for the northeastern states.

Now various sections of the south require their own manuals. Gardeners in the state of Florida are fortunate in the recent publication of "Your Florida Garden," by John V. Watkins and Herbert S. Wolfe, issued by the University of Florida



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Press, at \$5. The first author is well known, not only as an instructor in nursery operations, etc., at the University of Florida, but also as the author of the instructive "ABC of Orchid Growing" and the entertaining "Gardens of the Antilles," besides numerous articles and bulletins. Dr. Wolfe, head of the department of horticulture at the University of Florida, is an editor and author of note in the horticultural field.

This bulky book of 319 pages seeks to meet the particular problems of the Florida gardener, although two of the first three chapters—on planning the garden and on propagation—are necessarily general in application. The second chapter discusses the problems of soil, fertilizer, water and temperature met in Florida. Then successively are chapters on plant species and varieties for the Florida landscape—trees, palms, shrubs and vines, herbaceous perennials, annual flowers, bulbs, lawn grasses and ground covers. Finally, chapters are devoted to beach and patio gardening, to pests and to monthly chores. Tables, charts and some illustrations add to the value of the volume, which the northerner moved south will find a means for speeding his garden success in the new environment.

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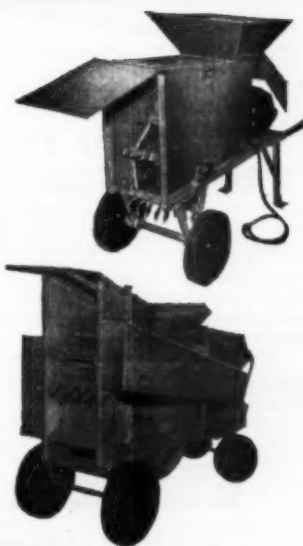
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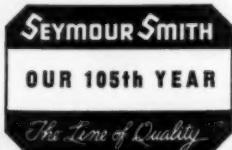
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# Abstracts

## of Recent Research

### USE OF ADENINE IN ROOTING CUTTINGS

Adenine, a substance known to be associated with the utilization of auxins by plants and usually thought of as an anti-auxin, may materially help in the rooting of cuttings, according to an article reviewed in *Phytopathology*, 43:587. *Prunus mahaleb* was the material used in the tests.

Three-inch leafy cuttings, momentarily immersed in an antitranspirant with 1,000 parts per million urea, 5,000 ppm sucrose, 25 ppm thiamine and 25 ppm nicotinic acid, were dried and then had their bases soaked in adenine at the rate of 200 ppm for four hours. Following this, the bases were dipped in talc containing 3,000 ppm indolebutyric acid. In three weeks' time they had rooted 100 per cent. If the adenine was omitted, rooting was only 40 per cent in three weeks or 80 per cent in six weeks. There was also a reduction in number of roots per cutting. If both indolebutyric acid and adenine were omitted, no roots were reported at the end of six weeks. When the antitranspirant was used, cuttings remained fresh even though not rooted at the end of six weeks. When the antitranspirant was omitted, cuttings died before any had rooted. C.

### STUDY ROOT CUTTINGS OF RASPBERRIES

The department of horticulture at the University of Nottingham school of agriculture, using two varieties of raspberries in some studies on the handling of root cuttings, took these cuttings at various times of the year and handled them in the greenhouse, in heated frames and in the open ground. All cuttings were laid horizontally and covered with soil, two to three centimeters deep in the greenhouse, two to three cm. deep in the unheated frames and three to five cm. deep outdoors. In all cases the roots were two to four cm. in diameter and were cut in eight to 12-cm. lengths.

Cuttings taken from October to December were best handled in the open ground, but cuttings taken from January to March were best handled in the greenhouse. The highest percentage of new plants was obtained from January-March



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cuttings in the greenhouse. This was reported as approximately 80 per cent.

### TEST NEW INSECTICIDES

The development of chlorinated hydrocarbon and organic phosphate insecticides offers a definite improvement in spray materials for the control of insect pests of ornamentals, in the opinion of J. C. Schread, of the Connecticut agricultural experiment station. Mr. Schread gives data on the use of such materials for the control of pine needle scale, azalea bark louse, birch and boxwood leaf miners and aphids, in the *Journal of Economic Entomology*, volume 47, No. 3.

Essentially a complete kill of pine needle scale was obtained by spraying infested *Pinus montana* with Malathion and Parathion emulsions May 26, when all but a few of the overwintering eggs had hatched, exposing the young scales to the spray. In this experiment 100 per cent control was obtained with a 57 per cent Malathion emulsion at rates of 1 to 400 and 1 to 200 parts of water. Some of the young scales that hatched after plants were sprayed with 25 per cent Parathion at 1 to 800 and 1 to 400 survived and gave rise to a second brood. Apparently good control was obtained with Parathion at 1 to 200 and the Malathion-sprayed plants were virtually free of scale after one treatment.

The azalea bark scale on *Azalea kaempferi* was controlled by spraying the plants the latter part of June, after egg hatching, with TEPP, nicotine sulphate, Loro, Potasan and Malathion. The chlorinated hydrocarbons, Aldrin, Chlordane, Dieldrin and Lindane, were ineffective against this pest.

Control of the birch leaf miner was complete with a 57 per cent Malathion emulsion applied May 20 at dilutions of 1 to 1600, 1 to 800, 1 to 400 and 1 to 200. A concentration of 1 to 400 was required to control the boxwood leaf miner.

Excellent control of aphids on English hawthorn was obtained with G-23611, Malathion and BHC. Two treatments with Malathion and BHC were required to prevent aphids build-up before the end of the summer, but trees sprayed once in early July with G-23611 showed no serious aphid infestation.

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**ROSES FOR SHIPMENT**

[Continued from page 7]

spray and realizes good defoliation and rain comes the day he has planned to dig the stock, he may be in trouble. If the field is sticky for any length of time and warm, cloudy days prevail, secondary growth may result; stock in this condition is difficult to handle.

In general, roses are dug after they have been hardened up by undercutting. In this condition the leaves are removed either in ethylene chambers or by sweating them off. By placing bundled plants in tight chambers, introducing "apple gas" or ethylene and holding the temperature at 70 to 80 degrees Fahrenheit for approximately four days, nearly complete defoliation is obtained, provided good circulation is maintained within the unit. This, in principle, is similar to the old method of placing plants to be defoliated in an apple storage area with the fruit. Leaves can also be sweated off by ricking bundles in refrigerated or common storage, or by simply burying the canes for a period of time in sand or soil. If the plants are defoliated in storage ricks, careful attention must be paid to the progress of the operation in order to prevent heating and subsequent injury.

In the past, roses have been defoliated either in the field or in storage by mechanical beaters. Although such machines do an excellent job of removing the leaves from the plant, the operation is expensive from a labor standpoint, and, too often, brittle or weak canes are broken or bruised. This not only reduces the value of the plant, but also makes the job of storage much more difficult.

**Storage of Roses**

After the rose has been defoliated proper storage conditions must be maintained. Since a number of rootstocks are used for hybrid tea rose varieties and there is a large number of varieties themselves, it is difficult to generalize or be specific on the optimum conditions of storage. In general, roses are best handled in refrigerated storages at a temperature of 35 to 40 degrees F. Since it is difficult to regulate relative humidity in these storages, in that constant syringing of the roots is required to prevent drying, little is done in the commercial storage to regulate this condition. When storage molds become a problem, control can often be accomplished by decreasing the relative humidity by only a few per cent.

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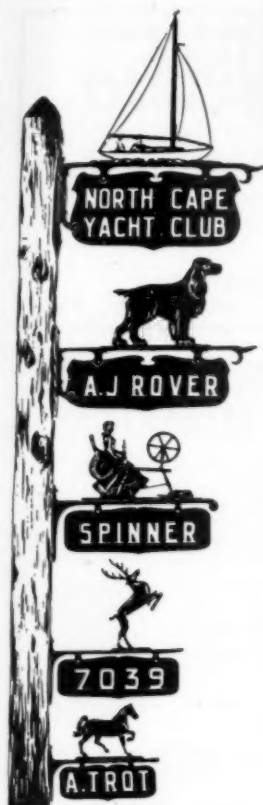
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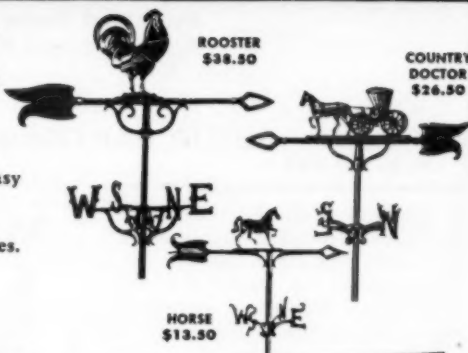
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another problem, that of storage molds. Many nurserymen have done an excellent job of eliminating molds by dusting the plants with fungicides at the time of storage. Commercial rose dust preparations, high in sulphur, usually do an excellent job of controlling mold activity. Spot control of various storage molds which develop on canes has been successfully controlled with DHA-S, the sodium salt of dehydroacetic acid, at the rate of one part chemical to 600 parts of water (plus a soap spreader). Results indicate, however, that application of large amounts of water to the plant in storage often does more harm than good, even if the operator is applying a fungicide. At this point it should be stressed that in many commercial refrigerated storages molding is not a problem and consequently the application of fungicide dust would only add to the cost of operation.

Although ultraviolet lights are being used in storage units there is some doubt as to their efficiency and economy. The bulbs are expensive and under the conditions which prevail in nursery storages are rapidly burned out and therefore often need to be replaced.

Probably the most important factor contributing to mold control is

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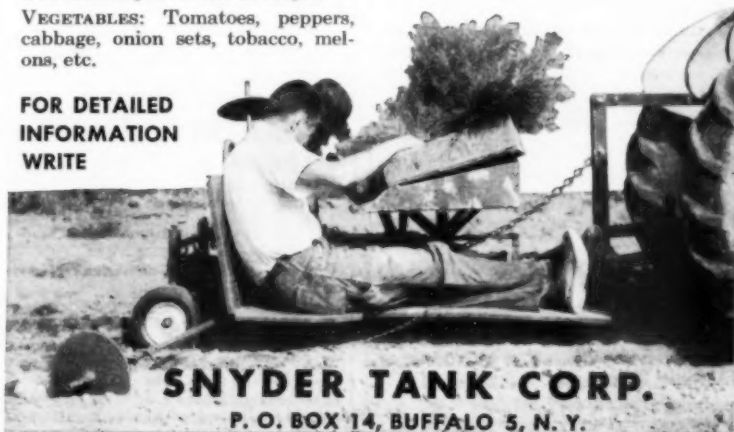
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air circulation. If the plants have been carefully ricked and good air circulation under and between units is maintained, the danger of a mold problem's developing is greatly reduced. In this regard, however, it is important to recognize that many storage molds, although unsightly, are only saprophytic in nature and consequently are supported only on old, decaying leaves or wood. For this reason it is important that a good job of defoliation be done before storage and that the storage itself be decontaminated between storage seasons and maintained in as clean condition as possible at all times.

By the time the rose is ready to be marketed there is a considerable investment in the plant, especially if it is a hybrid tea or new variety of merit. For this reason the method of handling the specimen prior to and during packaging is critical.

## Waxing Roses

There is a great deal of controversy as to the effect of waxing the canes on the field performance of roses. Waxing, as such, does reduce the amount of water lost from exposed canes and over a long storage period at room temperature will keep the plant alive, whereas non-waxed plants would succumb.

We have found that early in the season, waxed roses outperformed nonwaxed specimens that were allowed to remain on display for reasonable lengths of time at moderate temperatures. Given these same marketing conditions late in the season, however, the two plants, after planting and pruning, behave somewhat differently. If the specimens having waxed canes are dormant or are pruned high at the time of planting, high field temperatures often melt the wax, which results in oil injury to the tissue system of the cane. However, if the plant is pruned low or hilled until the buds break, thereby protecting the canes from direct sunlight, a normal, well-branched plant will be produced.

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especially since the installation of refrigerated storages, pulling and waxing large quantities of roses in the early spring have introduced several problems. Roses which are removed from storage and held for any length of time before immersion in the waxing vats collect large quantities of condensed water on the canes. Immediate dipping following removal from storage would avoid this accumulation of water, which prevents adequate wax adhesion. Additives to the wax consisting of 2 and 3 per cent concentrations of materials in the polyhydric alcohol esters group have permitted adhesion of the wax to moist canes.

Roses which have been root wrapped in a moist packing material with 60-pound 1½-mil. polyethylene paper with the canes covered with a 1½-mil. polyethylene bag gave field survival counts similar to those obtained from root-wrapped waxed plants. Again it was noted that if nonwaxed plants with a polyethylene cane bag were allowed to remain on the counter for a long period of time at high temperatures many lateral growths were forced. In this case the bag served as a miniature greenhouse, holding the humidity and heat, which in turn stimulated bud break and lateral growth. As has been previously noted, these growths, after the plant has been pruned, can be hardened off by the customer through the use of the polyethylene bag.

#### Roses for Retail Store Sales

In general, then, roses which are to be marketed as bare-root or root-wrapped plants in retail stores generally have waxed canes. If the plants are bare root the nurseryman generally heels the plant in some moist packing medium or soil. When this is done careful management to prevent the development of an excessive number of lateral growths must be practiced. In addition, after the plant has been sold it should be well packaged to insure viability. For this purpose, and since weight is not a factor, a moist shingle tow-sphagnum or peat root pack together with an over-all covering of 60-pound 1-mil. polyethylene-kraft paper will keep the specimen in good condition for a relatively long period of time, a factor which may be necessary if prevailing weather conditions prevent the immediate handling of the plant by the customer.

The bulk of the roses handled at the retail store level are sold as individually root-wrapped units. For this procedure moist shingle tow-sphagnum, peat or paper root-pack-

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ing materials are used either singly or in combination. The root system is then wrapped in impregnated paper, which is sealed at the crown at the time of waxing the canes, and the entire root wrap is enclosed in a bright, attractive display bag.

If roses are handled in this manner and the marketing season extends over a period of three or four months, extreme care in handling this stock must be exercised. If the plants are exposed to warm, dry conditions for any extended period of time, the plant begins to grow. These growths which are forced on the display counter appear attractive to the customer, for, from this, he assumes that the plant material is living. In part this may be true, but allowed to develop, these growths soon use up the food stored in the plant, which is needed for the development of secondary buds and root growth after planting. Forcing buds to break on display material would be desirable from the customer's standpoint and, if not excessive and handled properly by the customer, would not be disastrous. In this regard, forcing is closely correlated with the moisture content of the packing medium as well as with secondary root activity in the packing medium.

In merchandising material of this sort it would be desirable, if facilities permitted, for the nurseryman to show only small quantities of each of the varieties handled instead of displaying great quantities of one, two or many types. In this operation the remainder of the plants could be held under refrigeration or in a cool storeroom (not subject to freezing), where quality would be maintained and plants could be removed as they are needed on the display counter.

### Display in Polyethylene Bags

From preliminary trials on methods of packaging roses for retail stores it is evident that roses can be merchandised in sealed polyethylene bags. For this method it would be desirable to have a printed bag produced, the bottom half of which is opaque and would therefore serve to obscure the root system and any loose or dry tissue which had been sloughed off from the root system of the packaged plant. In addition a cardboard spreader to give diameter to the base of the bag as well as a waterproof cardboard clip the approximate size of the inside diameter of the bag, which would fit around the crown of the plant, would be desirable. The top of the bag can then be sealed, either with

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Several questions naturally arise at this point as to the proper method of preparing the plants for packaging. The first requisite to success is vigorous, well-matured stock which has been detail pruned to remove all weak, broken or diseased canes. The plant at the time of packaging should not be wet from a recent syringing. If the plant is to remain in the polyethylene bag for any length of time the question of added moisture is proposed.

Plants which are marketed in relatively tight-fitting bags with roots and cane ties, and which are held under cool temperatures until placed on the display counter for a short period of time, need not be root wrapped in a moist blanket. However, if the bagged plants are to be subjected to relatively high temperatures for long periods of time it would be desirable to ventilate the bags to prevent the build-up of heat within the container.

In addition, a moist blanket of sphagnum or insulation material, the consistency of which approaches that of a towel after it has passed through a wringer, can be wrapped around the roots. If the roses are packaged either with or without moisture and are subjected to alternating temperatures some condensation of water on the inside of the bag will occur. This is not harmful, but where transparency is a factor in selling it may inject some problem.

#### Packaging for Mail-Order Shipment

The type of package used to ship roses will depend on factors such as the grade and variety of the rose, the quantity being shipped and the distances the packages have to travel.

For small orders of mail-order roses consisting of from one to several plants 1½-mil. 60-pound polyethylene-kraft paper can be used for varieties which are not particularly thorny or do not have brittle roots. Small orders of particularly thorny varieties which fall under the 1-pound rate can first be cane wrapped in a stiff paper and then packaged in polyethylene-kraft paper.

As in the procedure described for packaging roses in polyethylene bags it is essential that the canes and roots not be wet. The plants also should be detail pruned before packaging if molds are to be controlled in late spring shipments. For small orders of extra-heavy No. 1 roses

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or new varieties it is common practice to use cardboard boxes in which to ship the plants. Root wrapping these plants in polyethylene-kraft paper, slipping a polyethylene sleeve over the canes with a crown tie and then placing the order in a reinforced shipping container would present an attractive product to the customer.

Since polyethylene, as such, is relatively new to the nursery field, it appears that consumer education is now necessary to acquaint the public with this product. Until this is done, there may be some hesitancy on the part of the customer to purchase a prepackaged item in a polyethylene bag that has no moist packing and which consequently is light and without body.

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Miss Ethel Poppel, president of Michigan Peat, Inc., announces that, in line with its expansion program, new and enlarged offices have been opened at 67 West 44th street, New York, N. Y.

Philip Hamerslough, Jr., has been elected to the office of vice-president and will be in charge of sales and merchandise. Mr. Hamerslough was previously assistant to the president of the Jacques Kreisler Mfg. Corp., makers of watch bands and men's jewelry.

Joseph Hartman has been elected vice-president in charge of production. He was previously an officer of the Hartman Tobacco Co.

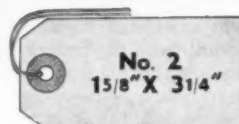
CHAIRMEN of different sessions of the sixth annual garden school for home gardeners, January 10 to 12, at Boise, Ida., were Kenneth Briggs, president of the Idaho State Nurserymen's Association, Briggs Nursery, Pocatello; Sidney Nelson, Nelson Nursery, Boise, and Bob Gates, Petrie Nursery, Boise.

ALLEN J. HANKELE, proprietor of the Alanwold Nursery, Nesha-miny, Pa., left December 31 on a 6-week Mediterranean cruise. Mr. Hankele is visiting several countries, including Turkey, Syria, Lebanon and Egypt.

A SON, James Reed Boyd II, was born to John T. Boyd, of Forest Nursery Co., McMinnville, Tenn., and his wife, November 21, 1954, it has been announced.

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